Toy & Hobby World's

Leisure Time Electronics

Vol. 18. No. 11

May/June 1980



Birdseye view of last year's June CES at McCormick Place.

Consumer Electronics Show prepares for 60,000 visitors

CHICAGO – Manufacturers of handheld electronic games, video games and personal computers will be well represented at the International Summer Consumer Electronics Show, expected to draw some 60,000 persons to Chicago.

The 1980 Summer CES, the largest ever held, will take place from Sunday, June 15, through Wednesday, June 18. It will feature more than 900 exhibitors and utilize more than 550,00 net square feet of space at McCormick Place, adjacent McCormick Inn and the Pick Congress Hotel.

Sponsored by the Electronic Industries Association's Consumer Electronics Group, the show will also include a number of special exhibits complementing product displays. In addition, 12 hours of retail-oriented CES conferences, workshops and seminars will be presented for show attendees.

Sales of all consumer electronic products "hovered" around the \$15 billion level in 1979, esti-

See us at June CES for LTE subscription, advertising information. Publications Booth Section, booth no. P-42.

mates EIA. In its 1980 Consumer Electronics Annual Review, the association predicts that the scarcity and high cost of gasoline, plus other inflationary strains on the average consumer budget, "will cause consumers to turn increasingly to home entertainment and new uses for the TV screen" this year.

The "fast-growing" electronic handheld game market attracted many new manufacturers in 1979, notes the review, "yet supply

Continued on Page S6

\$1 billion business develops in 6 years

By MILTON SCHULMAN

Exploding into a \$1 billion business in six years, the leisure time electronics market is expected to grow another 25-30 percent at the retail level in 1980.

Merchants of varying types continue to make long-term commitments to this quickly emerging, major sales area whose consumer appeal stretches across the age spectrum.

Buyers of toys, electronics and sporting goods are stocking items ranging from \$25 handheld games to video game systems and new personal computers retailing for hundreds of dollars.

In mass merchandising outlets, leisure time electronics are being consolidated and sold in specially created store areas, where they can be effectively displayed on a year-round basis. Buyers for such organizations have, in many cases, been granted separate budgets that allow them to become properly involved with these high-risk items that yield such unprecedented, high volume.

Independent merchants, too, report they are gaining extra dollars from electronic leisure time products that have dramatically captured the public's fancy.

Retail sales of non-video electronics more than tripled in 1979, their fourth year on the market, reaching an estimated level of \$782 million. Persons in the teen-Continued on Page S12

Chip supply shows major improvement

By BOB CITELLI

Leisure time product manufacturers, who have been unable to obtain enough microprocessor chips to meet their production plans, may find themselves in a buyer's market by 1981 as a result of various factors.

A slumping auto industry, poor housing starts, and a general downturn in the nation's economy, combined with new initiatives on the parts of the chip suppliers, should combine to greatly ease the chip supply situation—at least temporarily.

With auto sales down as much as 30 percent and housing starts at an all-time low, chip vendors face somewhat of a dilemma. Demand in these areas is not Continued on Page \$38

1978 1979 Leisure Electronic Leisure Electronic Sales: Sales: \$500 Million \$1096 Million Electronic Non-Video Electronic Video Electronic Electronic Video \$782 Million Non-Video \$263 Million \$313 Million 236 Million 10-12 yrs. 22% \$69 10-12 13+ 0-9 yrs. 64% \$200 yrs. 39% \$305m yrs. 32% \$250m yrs. 28% \$219m yrs. 14% \$44

The above chart shows leisure time electronic sales for 1978 and 1979, as estimated by NPD Research, Inc.
The bottom boxes indicate dollar volume by age groups. (More sales data appears on Page S37).

Some buyers want to know Some buyers want to know why we've been Number I in sales why we've been past three years. We've maintained that Number I is the best position ever since.

Mattel Electronics pioneered hand held electronic games in 1977 with the bestselling Football 1. Its success made us the leader of this brand new industry.

First, by offering consumers a complete line of quality "state-of-the art" products for superior game play. Second, by offering you the man

second, by offering you the marketing, merchandising and promotional skills necessary to guide this rapidly growing industry.



others only care about this year.

For 1980, Mattel Electronics presents an impressive line.

Sixteen hand held products in the Sports, Action and Strategy categories. A line designed to encourage multiple purchases among men and women, boys and girls.

We're also introducing the innovative Intellivision™ Intelligent Television home video system with 60-

second TV spots and persuasive national magazine spreads.

We've been your Number 1 seller for three years and 1980 should be no different. Only better.

MATTEL ELECTRONICS®

Circle No. 2 on product card





Ready to serve a new industry



Bentkover

In creating a trade magazine, a publisher seeks out an existing marketplace and tries to fill a void by bringing that industry's major segments together through a needed communications link.

This was the case with TOY & HOBBY WORLD, the parent publication of LEISURE TIME ELECTRONICS, which was designed to address the specific needs of an already developed market (the toy and hobby industries) and the defined buyers in that market. Over the years, TOY & HOBBY WORLD has established a preeminent position, and the confidence of its advertisers has been highly instrumental in stimulating this new publishing venture, LTE

A different process has taken place in the creation of LEISURE TIME ELECTRONICS. During the past four years, we have been magazine. following the emergence of an entirely new industry. It first became apparent with the appearance of a totally new product category, TV games. This led to a new method of merchandising, a new set of buyers and a crossover between the toy and electronics retail markets, which is now giving rise to completely new retail outlets, oriented toward selling family leisure electronic products.

It is an exhilarating feeling to be standing ready to serve an emerging industry, with a brand new publication that has no parallel

There is a special need for LEISURE TIME ELECTRONICS, anywhere else. because great confusion still exists at every level of this industry; confusion about who it is that buys leisure electronic products; what constitutes leisure electronic products; how they are identified to the consumer, and how the consumer can find the right department or retail outlet to examine and buy the variety of leisure electronic products that are quickly becoming available.

What is the background of the retail buyer of leisure electronic products? What is his training and his knowledge of the highly sophisticated merchandise he is now selling? LEISURE TIME ELEC-TRONICS will identify these buyers as they emerge, and provide them with clear, concise information that helps them do their jobs professionally and profitably.

Our direction is indicated in this premiere issue. For example, we have devoted an extensive amount of space to a comprehensive directory of leisure time electronic products being marketed this year-organized conveniently by product classification. Included are brief descriptions of the items and promotional plans of their

Viewpoint manufacturers. To our knowledge, such a directory exists nowhere

manufacturers. To our known grant and the serve the practical nowhere else. It has been specially designed to serve the practical nowhere else. It has been specially designed to serve the practical nowhere else. It has been specially designed to serve the practical nowhere else. It has been specially designed to serve the practical nowhere else. It has been specially designed to serve the practical nowhere else. It has been of their merchandise mixes this pract buyers in planning their merchandise mixes this year. ryers in planning their increases by the articles by manufacturers in sissue also includes exclusive byline articles by manufacturers time electronic products and microprocessor components

This issue also includes the This issue also include the This issue also i of leisure time electronic property of leisure time electronic property and by an official of a highly regarded marketing research firm and by an official of a fight, and of fight, and of future from the second of the second of future from the second of the second These features aim to litered.

These features aim to litered to litered, and of future trends that has made leisure time electronics possible, and of future trends that has made leisure time electronics possible, and of future trends. that will affect your sales.

at will affect your sales, at will affect your sales, at will affect your sales, at will serve as a buyer's guide to all product categories which LTE will serve time electronics. Future issues will contain LTE will serve as a buy to LTE will serve as a b comprise leisure time etcer is much duplication of product; further comparisons, where there is much duplication of product; further comparisons, articles on microprocessor technology; constitution comparisons, where there comparisons are comparisons, where there comparisons are comparisons, where there comparisons are comparisons and comparisons are comparisons and comparisons are comparisons and comparisons are comparisons. enlightening articles of supply, both domestic and foreign, and of information on sources of supply, both domestic and foreign, and of course, details of successful retail merchandising techniques

The material in LTE has been compiled by our editor, Milt The material in British and Bob Citelli, our associate editor, who have already Schulman, and Bob Citelli, our associate editor, who have already Schulman, and Bob Cite established close lines of the major executives and buyers in this industry. They welcome your comments executives and buyers in this industry. They welcome your comments on how LTE can further help you in your merchandising

If you are reading this before the June CES in Chicago, we invite If you are reading the south of the Publication Booth you to meet us at our booth, Booth no. P42 in the Publication Booth you to meet us at our booth, Booth Bentkover, Co-Publish Section.—Harvey Stern and Stephen Bentkover, Co-Publishers.



to exciting future

Looking forward



Schulman

As principal editors of LEISURE TIME ELECTRONICS, we are enthusiastic about being involved in the emergence of a new kind of lifestyle for Americans-the Age of Electronics.

We have been reporting the development of the leisure time electronics industry for four years in TOY & HOBBY WORLD, and are well aware that all the wonders currently visible represent only a small fraction of what is yet to come. We feel privileged to be able to help the retailing community understand this important product revolution, and create meaningful ways of presenting this unique merchandise to an extremely broad customer base. In addition, we plan to keep pace with the new technologies as they develop.

We will be discussing aspects of leisure time electronics merchandising at greater length in this column. Meanwhile, we look forward to meeting buyers at the June CES, and hope to hear from many of you in the upcoming months. - Milt Schulman, Editor, and Bob Citelli, Associate Editor.

Leisure Time Electronics

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1980 leisure electronic products classified by category	51
Directory of leisure time products manufacturers	. S2
Montgomery Ward mounts special electronic game sections	. S2
Games People Play specialty chain opens in Houston	\$3
What the consumer seeks in a home computer system By Timothy Huber, Mattel Electronics	50
Basic glossary of computer technology buzz words	. 53
By James P. Tann, National Semiconductor Corp.	
Up-scale families are heaviest electronic game buyers By John Byington, NPD Research, Inc.	. 58
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Directory of component suppliers for leisure time electronics

NTRODUCING CASTLETOY

EINSTEIN NAME THAT TUNE TACTIX SUPERSTAR GUITAR THE MUSIC ARCADE SATISFACTION POLI-STEEL CARS & CYCLES DICC D. DODDIN COLORTONE" STORYBOOK SYSTEM

CHEUNG KONG IND . GORDON BARLOW DESIGN . RICHARDS & EDWARDS, INC . NATIONAL SEMI-CONDUCTOR . N.E.C. MICROCOMPUTÉR • N.E.C. AMERICA • PIPPIN ASSOCIATES • RHODE ISLAND HOSPITAL TRUST CO . WALDOROTH CORP . BOMAR • CHOMERICS • C.H. POWELL • STOP DESIGN • EUE/SCREEN GEMS ● J. GOLDENBERG & ASSOCIATES ●

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CASTLE TOY 200 FIFTH AVE. ROOM 614



S6 TOY & HOBBY WORLD, May/June 1980

Expect 60,000 to attend summer CES in Chicago

Continued from Page S1
seemingly cannot keep up with
demand." Sales of handheld electronic games soared to \$450 million at manufacturers' level last
year, estimates the publication,
compared with \$35 million in
1977. Electronic board games

such as chess, bridge and checkers are also providing "sales growth for many retailers," according to the report from the Electronic Industries Association.

NEW VIDEO CARTRIDGES

The Annual Review notes that

programmable video games "shared in the general consumer interest in games last year. Many new cartridges were made available to meet growing demand for software." Sports cartridges remain "very popular and adventure games lead sales in many

parts of the industry," reports

In its review, the association of more sophisticated game programs, games with keyboar and other input devices, it has gotten 'difficult to differential

THE ELECTRONIC GAR WHEN THE CR



All electronic games have chips in them.
But that's where the similarity ends.
Because some electronic games
don't play very well, and some don't
have strong promotion, and some
are so unknown they just sit on the
shelves, and some can't be delivered
when you need them.
But when all the chips are down
there's one company you can depend on
for electronic games.
Entex.

Our quality is known throughout the Industry. Even when we have a game that's a big seller we continue to upgrade and Improve it, using "smarter" chips and giving it functions.

between some video games and personal computers' that are presently on the market.

COMPUTER MARKET GROWS

The personal computer market, according to the Annual Review, has been "dominated for the past few years by small businessmen and hobbyists." In 1979,

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Phone: (213) 537-8740. Gircle No. 4 on product card

Circle No. 4 on product card

however, "some retailers expressed opinions that the awaited development of a consumer market was getting closer, particularly as more software and peripherals become available. Several informed industry executives look for production of personal computers to reach about 600,000 units this year, at a value of about

\$750 million,"

CES Special Exhibits will be highlighted by the Consumer Electronics Design and Engineering Exhibition, presented on the lobby level of McCormick Place. Here about 100 new products, selected for their innovation by a distinguished panel of judges, will be on display in a gallery-like environment. EIA notes that the consumer electronics industry is currently on a "technological high," and that the end result of these swift technological advances can often be seen for the first time by a mass audience at this regular exhibition.

Other CES Special Exhibits will



CEG restructures; adds video systems unit

WASHINGTON-Recognizing the diversifying needs of its "greatly expanded" membership, the Electronic Industries Association's Consumer Electronics Group ratified a new structure and elected additional officers at its recent spring conference.

Over 60 manufacturers now belong to the Consumer Electronics Group, and this number was expected to reach 80 by mid-year.

At the conference, a total of 29 companies was elected to serve on the new 33-member CEG board

of directors for 1980, which is equally divided between audio and video companies. One of the board's companies is Mattel Elec-

To accommodate expanded video membership, a Video Systems Subdivision was formed. It will be responsive to statistical, engineering, government affairs and industry development requirements of manufacturers of video games, personal computers, video tape recorders, video discs, video cameras and accessories and

Kenneth L. Ingram of Magnavox is chairman of the Consumer Electronics Group's board of directors. Tony Mirabelli of Quasar is chairman of the Video Systems Subdivision.

CEG has also appointed Frank Barth, Inc. as its advertising, marketing and public relations agency.

MOUNTS PUBLICITY EFFORT

The agency is developing, coordinating and publicizing a series of target market programs called Consumer Electronics Juhi lees in major market areas. The first was scheduled for Boston in

Late last fall, the agency began a promotion/publicity program to help develop media awareness and exposure of the consumer electronics industry by encourage. ing lifestyle, business, technology and financial editors of print and broadcast media to attend the Consumer Electronics Shows. The overall aim of its public relations efforts will be to focus more media attention on the benefits that consumer electronics prod. ucts bring to the American public.

Summer CES

Continued from Page S7 include the Retail Resources Cen. ter, featuring retail service organ. izations. An International Visitors Center will be headquarteres for an estimated 5,000 overseas visitors to the show, with a bilingual staff in attendance.

National trade associations will have exhibits providing special services to members attending CES, and some 50 industry publications that regularly feature consumer electronics in their editorial and advertising pages will have individual exhibits.

A conference on the Federal Communications Commission's involvement with electronic games, home computers, television, VCRs and video discs will be held Monday, June 16, from 9 a.m. to 11 a.m.

A retail merchandising workshop, to be held from 2-4 p.m. on the same day, will focus on advertising, direct mail and store display. The following day, Tuesday, June 17, a retail management seminar will be held on inventory management, expense control, personnel relations and store operations. The hours for this conference are also 2-4 p.m.

Hockey game promo

CHICAGO - Waddingtons House of Games, which is marketing its Electronic Hockey 2 this year, plans a special promotion keyed to the surprise gold medal victory of the U.S. hockey team at the Winter Olympics in Lake Placid, N.Y.

Each copy of Electronic Hockey 2 produced this year will carry a package sticker indicating that the manufacturer, upon receipt of the product warranty card, will forward \$1 in the consumers name to the U.S. Olympics Committee in financial support of future U.S. Olympic hockey

teams. Distribution of Electronic Hockey 2 is scheduled to begin in midsummer, says the firm.





The Conductive People



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Data Entry

FCC exempts handhelds from pre-market test

WASHINGTON-The Federal Communications Commission has exempted handheld electronic games from regulations that would require pre-market testing.

The pre-testing rules, which now become effective January 1, 1981, instead of July 1, are intended to screen out electronic products that could interfere with radio waves.

Toy Manufacturers of America had petitioned the agency for the exemption, arguing that handheld games are equivalent in their construction and parts to personal calculators, which the FCC has already excluded from the rules coverage.

Aaron Locker, TMA's general counsel, says the agency has also invited him to file for an advisory opinion that would have the effect of granting an exemption to tabletop games as well.

The FCC has also extended from July 1 to January 1 its target date for instituting new personal computer interference standards. The six-month extension was granted after a number of manufacturers held that they were given insufficient time to redesign and manufacture complying products.

The commission has additionally extended by two years its compliance deadline for new perand production stages.



sonal computer products, and by MAKES ELECTRONIC ENTRY: Leonard G. Sausen, GAF director of four years its compliance dead- marketing, Pictorial Products, has his finger on the winning number line for devices currently in design of a giant model of Melody Madness, the firm's first entry into the electronic game market.

Forms firm to

computers.

produce computer

BALTIMORE - The Avalon Hill

Game Company has formed a

separate new firm to produce

computer programming and cas-

sette tape packages that will allow

a large variety of games to be

played through the use of home

adventure game manufacturing

concern, reports that the new or-

ganization has been named

Microcomputer Games, Inc. and

will be headquartered here. Tom

Eric Dott, president of the

game materials

Mallory & Co. changes name to reflect firm's 'present thrust'

BETHEL, CONN. - The corporate name of P.R. Mallory & Co. Inc. has been changed to Duracell International Inc. to "more appropriately reflect the present nature and thrust" of the company's business.

Duracell International Inc. is a wholly owned subsidiary of Dart Industries Inc., which acquired P.R. Mallory in late 1978. The company manufactures a variety of high-performance batteries sold worldwide under the Duracell trademark.

Peter G. Viele, president and chief executive officer of Duracell International, says the new name designation "more aptly describes the company and positions the

Duracell battery business as a worldwide franchise." Additionally, he says, "the new name gives us a closer relationship to our parent company and a commercial advantage in our relationships with those outside the company." Prior to the name change, Duracell was a "group operation" of Mallory, which itself was a Dart subsidiary.

The names of Duracell International's principal U.S. divisions also have been changed to the following:

The Duracell Company, U.S.A., Bethel, Conn. (from Duracell Products Company). The division markets and sells Duracell batteries through consumer replacement channels.

Battery Technology Company, Tarrytown, N.Y. (from Mallory Battery Company). The division has responsibility for the company's manufacturing, engineering and technical sales in the U.S. and operates plants in five states.

The names of most of the firm's operations outside the United States also will change, with generally the name Duracell replacing the Mallory designation.

Fidelity develops software corporation

MIAMI - Fidelity Electronics, Ltd. has formed a new corporate entity, the Fidelity Software Development Corporation.

of the Miami-based electronics president explains, "all of our firm will be headquartered in research indicates the strong Paris, France. Tim Scanlan, a probability that playing games native of England and a former consultant to Fidelity, has been named general manager.

According to Scanlon, the new corporation will employ several of the many European programming engineers, who will initially work on developing future generations of the firm's microprocessor bridge game, the Bridge Challenger. They will also work on computer applications for some of Europe's unique adult games.

Fidelity Electronics' Challenger line of microprocessor board games, including chess, checkers, backgammon, and bridge, is marketed in over 2500 retail outlets worldwide. The firm asserts it is the world's largest manufacturer of selfcontained microprocessor-based board games.

Shaw, executive vice president of Avalon Hill, will head up the new company. According to Shaw there is "a huge new market developing The wholly owned subsidiary in this field." The executive vice

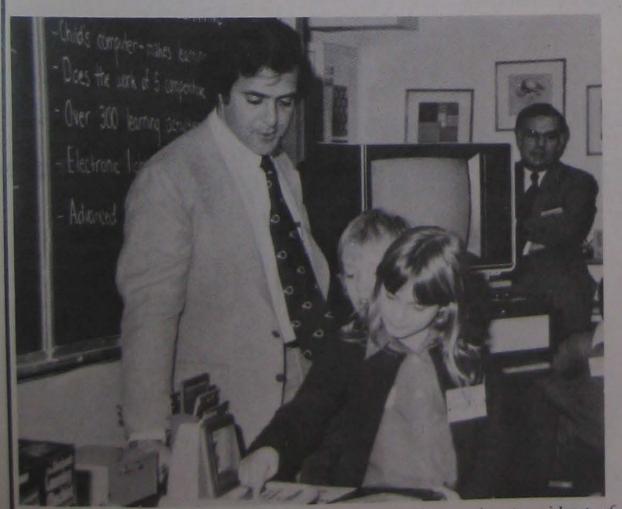
through a home computer will be

the next big family entertainment activity."

Shaw refers to the rapid growth in sales of relatively inexpensive mini-computers for home use, with companies such as Radio Shack, Apple and Commodore PET aggressively promoting a large variety of computers priced for home use.

"Thus it was inevitable," he continues, "that these home computers would be positioned eventually as a home entertainment medium in addition to their more normal functions.'

Microcomputer Games, Inc. says it plans to produce "a large variety of games in a wide range of subjects in many degrees of difficulty and complexity, which should appeal to practically every member of the family.



INTRODUCES LEARNING AID: Michael V. Katz, vice president of marketing for Coleco Industries, is assisted by New Lincoln School student Shannon Pettridge in demonstrating company's new Electronic Learning Machine at a recent press conference at the Manhattan school introducing the product.

Continued from Page SI purchased some one-third of these items, and more than half of the video games sold last year.

Heavy consumer demand for individual items kept these products in short supply. However, for the first time retailers experienced some carryover inventory of hand. held games made by secondary

In 1980 manufacturers plan to companies. distribute more than 300 nonvideo electronic items, triple the number on the market a year ago. (A detailed chart of 1980 leisure time electronic products, with planned promotion, appears on

page \$16). Consumers and trade buyers are again expected to give the biggest play to brand merchandise. Unlike previous years, though, trade persons find greater availability of continuing product, and have a wider number of sources to use in building their total mix.

After registering phenomenal growth in its initial years, the leisure time electronics market is expected to show retail sales gains of 25-30 percent this year. Industry persons feel that supply is beginning to catch up with demand in certain sub-categories of handheld games. Retailers also report that the downturn in the economy had some effect on electronic game sales in the early part of the year.



Group of current and past electronic games and toys utilizing Texas Instruments' TMS 1000 chip.

video game systems are a direct link to the oncoming age of personal home computers. "We feel the video game system is a way of easing our customers into the home computer field," he says.

Using a separate budget and "separate accountability" that does not affect the results of his other merchandising, Kapicka plans to build a selection featuring "at least 70 percent very identifiable, name-brand merchandise." He believes that the first-floor location will make it easy for children to find electronic games, while helping his

tiveness in the field. However, he feels that the higher profitability that can be gained earlier in the year will balance out his overall effort.

"If I do the mix right, I feel we can succeed," he states. "I think electronics represents additional dollars for our stores, and brings in a lot of new traffic."

MAINTAINS SAME SPACE

The toy department at Hess's, Allentown, Pa., has been involved extensively with electronic games for several years. The chain maintains the same amount of space for the category year-round - 30 feet of running stock-and early this year had 15 demonstrator units in operation. Early-year sales were made primarily to upper teens to adults, notes Bill Marine, Hess's toy buyer.

Electronics are carried in a separate area near the toy department. Marine reports that his stores carried 60 SKUs last fall, but because of caution about this year's economy, he was going with 30-35 SKUs early in the year, and expected to stock fewer items than last year in the fourth quarter.

"In my mix this year, I have to go with last year's winners and play the new ones by ear," he says. "We depend very heavily on distributors. In that way, we can bring in the new goods in small quantities, to get a feel for how they will do."

Marine expects supply of the high-demand items to remain tight. "Football will still be a winner, and sports games will dominate," he says. "Baseball is getting stronger. But space seems

Like other retailers, Marine finds that he is having little trouble receing shipments of pop. ular two- to three-year-old items even though these products remain on allocation from their

CREATE SHOP ENVIRONMENTS Department stores have been especially prominent in showcas. ing electronic games because they can easily create "shop-type" environments, believes Len Dvorin,

president of H. Corenzwit, Hill. side, N.J., a major wholesaler of electronic games to accounts

Department stores can create attractive visual displays, Dvorin points out, and have "fashion. conscious consumers with higher family incomes, who are interest. ed in what's happening."

Dvorin sees a continuing improvement in the variety and quality of electronic products being marketed. There is an underlying base of strong consumer interest in the field, but no general thirst for electronics," he remarks. "Consumers want to look at what's being offered. They are doing more selective buying."

Higher price points on newer products, combined with today's "credit crunch," are breeding caution among trade buyers, even though they remain strongly committed to electronics. Despite the obstacles, "I think there's enough attractive product out there to attract the dollars," states Dvorin. "If the product is exciting enough, it will be bought as an all-family purchase."

MORE PRODUCTS AVAILABLE

"Manufacturers' expertise has increased," he states, "along with their confidence. We won't see the massive shortages of the past, and will find an increased supply of continuing products."

Dvorin sees a larger amount of product now coming from the major companies. "You can get 50 good products from the namebrand manufacturers, compared with about 25 last year," he says. "Still, there are other producers who are doing a fine job, and they will get a decent share of the market. But I feel the future is limited for companies that are merely involved with knockoffs. Proliferation of product, in a

merchandise area that requires Continued on Page SIF

"We're not looking at electronics as toys anymore, we're regarding them as adult entertainment items"

-Don Kapicka, The Broadway

Most buyers, however, antici- chain take advantage of the catepate good sales movement later in the year, and have allocated key amounts of floor space to leisure time electronics. In fact, the need to let consumers touch these products, in order to demonstrate their unique features, is leading to a retailing revolution almost as impressive as the electronic product revolution itself.

"We're not looking at electronics as toys anymore, we're regarding them as adult entertainment items," declares Don Kapicka, electronics buyer for the 40-unit Broadway department store chain in southern California, "We've moved all of our electronics out of the toy department, because management sees a greater potential in selling them to adults."

At most stores of The Broadway, electronics are being showcased in a first-floor department that carries about 40 handheld games, and two video game sys-

Kapicka is well aware that the

gory's great appeal to adults.

Two-thirds of the games in stock will be powered and displayed on secured demonstration fixtures. The video game systems are connected to television screens, allowing customers to practice the different games and see how they work.

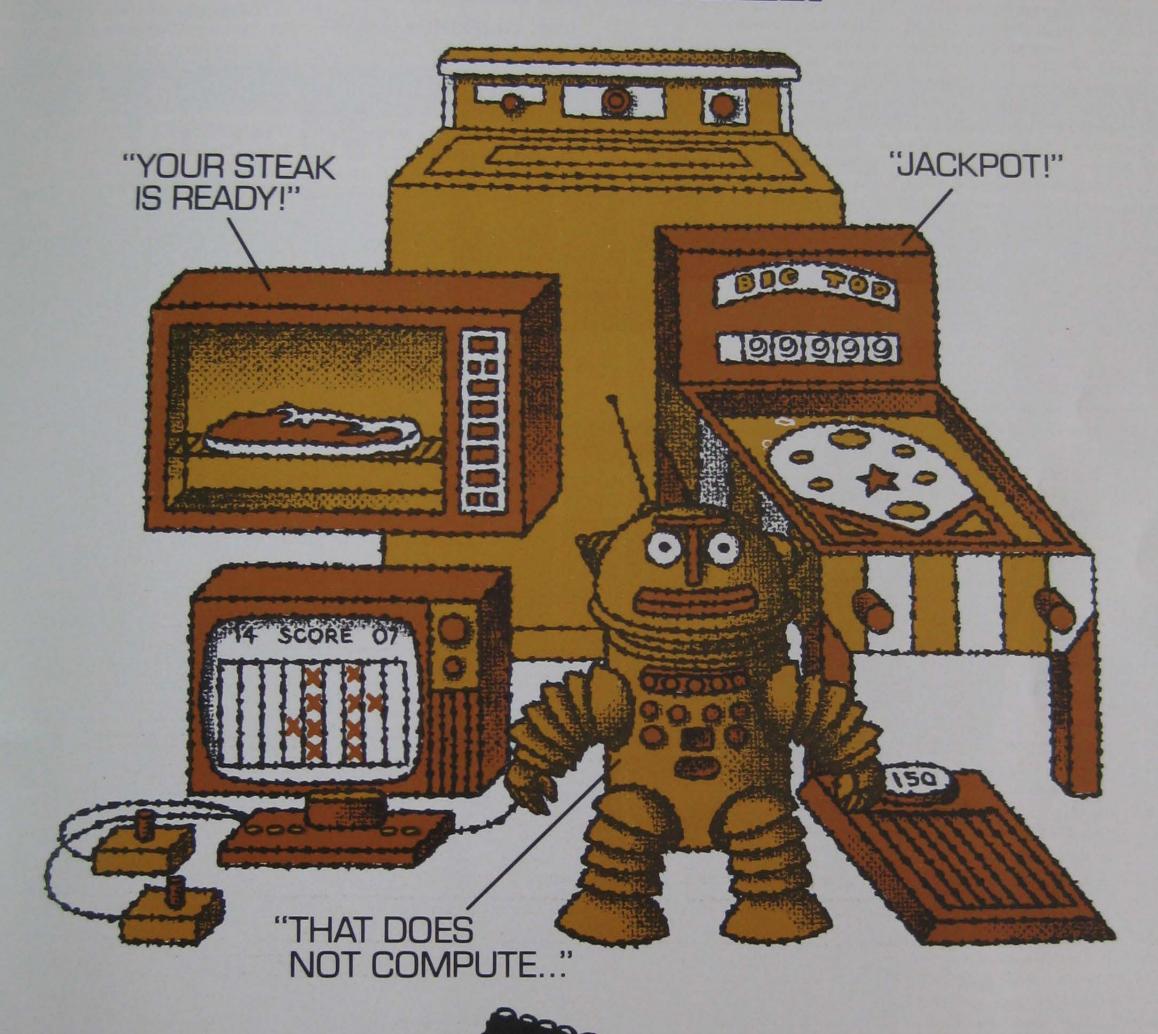
"More sophisticated electronic games are coming out, and we see our customers looking for new forms of home entertainment and home education," says Kapicka. "Despite the high risks, we feel we have to gamble and go in the electronic direction."

"I think we're looking at an industry that is changing very fast," adds Kapicka. "There is a year-round selling pattern for these goods, and now there is much greater availability of product on a year-round basis."

Kapicka estimates that 60 percent of his electronics business will come in the fourth quarter, when there is greater compet-

"Electronics have increased our customer base to the 18. and 19-year-old con-19-year-old consumers. It has given us a broader scope of -Norman Rosenberg, King Norman's Kingdom of Tops customers than we ever had before"

THAT SPEAKS FOR ITSELF SELLS ITSELF.



Votrax offers the first phonetic voice synthesizer on a chip.

That means we can give you a very large vocabulary with over 200% less memory than any other voice chip supplier. That translates into less cost from Votrax, the world leader in phonetic voice synthesis. We'll work with you from product concept through production. We can provide complete product support and can even handle the complete electronic package.

With Votrax, you won't need to deal with silicon chip vendors. Because you won't need their programming support. You'll buy your own memories and do your own vocabulary programming with a simple typewriter-like keyboard. And the more you do internally, the

more you'll be able to increase your security during product planning.

Features: 70 bits per second data rate

☐ 22 pin package ☐ 7 ma. current drain

☐ Built-in amplifier ☐ Single power
source — wide voltage supply range ☐

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High adult interest changes to older consumers has brought to older consumers have been consumers and the consumers has brought to older consumers have been consumers and consum

Continued from Page S12 heavy dollar outlays, concerns most buyers. "We feel there are too many electronic games and programmable cars on the market for an operation like ours to digest," says Norman Rosenberg. president of the 11-unit King Norman's Kingdom of Toys chain of independent toy stores on the West Coast

Rosenberg credits electronics with helping his stores achieve a 22 percent sales gain in the early part of this year. The sales have come because "we had more merchandise in stock than last year.

At the same time, Rosenberg feels he must be extremely selective in choosing items to carry in this high price range. "The game itself must have features that justify the price," he says. "Outside of the sports category, which remains strong, many of the items that play more than one game sell better. These items have the appeal of greater diversity. Programmable cars are also appealing because they can do more.

"A product's uniqueness, playability and appeal sells. Games with a strong family appeal have wider salability."

Along with these factors, Rosenberg takes into account an item's packaging, its planned promotion and its price points in making his merchandise selections. "Another factor is availability of merchandise," he adds. "Some firms are traditionally late shippers. We prefer to have merchandise in the store early, so that we can get an idea from the consumer of sales potential."

BOOSTS ADULT PROMOTIONS

A chain that promotes toys 52 weeks of the year, King Norman's has recently greatly expanded the amount of promotional money it uses to reach teenagers and adults. Electronics is the key reason. "We always were active in adult games, such as backgammon and chess," relates Rosenberg, "but we never spent thousands of dollars a month promoting adult games, because the size of our audience didn't warrant it. Now we do. Electronics have increased our customer base to the 18- and 19-year-old consumers. It has given us a broader scope of customers than ever before."

King Norman's runs frequent newspaper advertisements featuring electronic games, and conducts many in-store demonstrations. Additionally, the stores use in-store voice commercials made by Rosenberg himself, and put up signs to pinpoint new items. "We also train our employees to know what the product is and what it does," says Rosenberg. The great appeal of electronics

an increasing number of merchants into the toy distribution pattern, who had never been previously involved. One of these is Mel Gerst, president of Chess and Games Unlimited, a seven-unit chain of independent stores in southern California that has catered to adult leisure time interests for seven years.

Originally, the stores basically carried chess and backgammon sets and adult board games. But when the backgammon craze puter chess and backgammon.

MORE COMPETITIVE MARKET

"In the past few years, we've been gaining an increasing amount of sales from lower ticket electronics, and are finding ourselves involved in a more highly competitive marketplace," says Gerst. "We were surprised by the great amount of adult interest in

handheld games. Initially we rejected these items, but we were wrong. There are a lot more adult buyers than we

Gerst says that his stores still do best with higher-end products but now carry "a lot" of handheld electronics "just to round out out merchandise mix, even though we can't sell them at discount."

Proliferation of product, and the "great pressure" at trade shows to order product that will be in tight supply, make it diffi-

Electronics herald revolution in lifestyle

By MILTON SCHULMAN The emerging leisure time electronics market represents the leading edge of a far-reaching technological revolution, believe many trade persons.

This revolution is perhaps equivalent to the one that occurred with the introduction of electricity, in the view of Jeff Rochlis, president of Mattel Electronics.

"At that time, existing nonelectric products were enhanced by electricity and a host of new product categories was introduced," Rochlis observes. "The same thing is happening today with microprocessor technology

"We're going to move very quickly with the applications of this technology, which will spread to many aspects of our life. This will make possible whole new dimensions of products and services.

Noting the explosive growth of the electronic handheld game market in the past two years, Rochlis feels it is not "unrealistic" to anticipate a "20-50" percent volume gain this year at manufacturer level. "I don't think consumer credit pressures will have any effect on items priced under \$40 or \$50 at retail. We've had no indication that this is an unacceptable price point."

DIVERSE DISTRIBUTION

The present distribution pattern for handheld games is "fairly diverse," Rochlis finds. "Sports games, for example, are sold extensively in toy outlets, but also extensively in sporting goods outlets, and have a good representation among electronics retailers. The more exotic items, which are more adult-oriented and higher priced, are carried more in electronics outlets."

Electronics merchants have long been geared toward selling product that requires demonstration, and providing salespeople who can answer customers' questions, Rochlis points out. 'In many ways, they are better equipped for nourishing the inhas been traditionally."

Department stores, who "like to deal in new trends and fashions," have become leaders in electronics merchandising concepts from which other retailers can learn, he notes.

The nature of selling electronics is also reshaping the approach of self-service merchandisers, such as the toy supermarket chains, according to Rochlis. These outlets have found it necessary to set up secured, clerkserviced areas to display their handheld products.

SPORTS ITEMS DOMINATE

Rochlis calls the sports category the "most mature sub-segment" in the handheld games field. There are more SKUs and more quantities. It's also the biggest selling category. I feel supply and demand will meet there first, followed by other categories, such as action and strategy games."

in general, he believes that with the exception of "a few dozen mems, supply and demand "will pretty well meet this year."

The evolving nature of the business will lead to a "series of shakeouts," Rochlis believes. "But for everybody shaken out this year, one or two newcomers will enter the market. The technology behind these products is changing so rapidly, that you will need a whole new generation of products every few years."

Tony Clowes, president of Entex Industries, points out that distribution of handheld electronic games has reached a point where the consumer can be selective. "You don't have the same instant acceptance of an item as you had before."

While he, too, sees a diminishmg in the explosive growth of the category. Clowes still foresees excellent long-term growth.

Clowes expects handhelds to continue as a substantial portion of the business, but also sees technology leading manufacturers in new product directions.

Clowes believes that as brand merchandise tends to capture more of the total market, second. ary manufacturers may find it difficult to remain in business. "This doesn't mean that consumers are brand conscious," he elaborates. "But young adults are prestige-conscious, and want items that are currently in fash

A weeding out of producers could lead to the availability of more microprocessor components for the remaining manufacturers, notes Clowes. "With more chips, the brand manufacturer might then begin to feel he can become more innovative. Even the potentials of handheld games can be expanded a great deal. The voice chip, for instance, is now available from various sources."

MORE PRODUCTS 'ON STREAM'

Clowes notes that some manufacturers had more products on stream this January than in any other January. "This enables them to keep their production ongoing. With the majors planning to promote strongly this year. and buyers placing their money on products more likely to sell maybe the shelves will be a lot cleaner at the end of the season. That could influence the growth pattern in 1981."

Handheld electronic games have provided the death-knell for dedicated (single-game) video games, which enjoyed only a brid vogue. However, consumer interest in programmable video game systems is rapidly rising report Michael Moone, president d Atari Consumer Products, Moone says that his firm enjoyed a com plete sellout of product in 1979.

"There was a severe shakeoulla the video game market in 1978 when there was a lot of confusion between dedicated games and programmable games, an Moone, 'However, consumers and buyers are beginning to understand the difference. we see good sales in the real ahead.

cult to examine a game's playability, complains Gerst, "Because we are now in a different marketplace, we find it necessary to use other criteria than playability to make our selections. They include basic packaging, the look of the game, the name behind it and the planned TV promotion."

Gerst was happy to find that product availability has "improved" this year, and as a result reports less pressure to order at the trade shows.

Some buyers are waiting to obtain separate budgets from their managements before establishing an electronics section.

"I expect eventually to split off

electronics from my toy department," says the toy buyer for a Southern department store chain. "You've got to, because you're dealing with a different customer and price situation.

"Electronics is expensive. I need a separate budget in order to do a proper merchandising job. It requires a demonstration area, and I feel I can't do it justice at this time."

The buyer is confident that his management will soon join the general trend toward establishing separate budgets.

"Electronics is big business," he states. "Our customers are asking for it, and I want to give them what they want."



Consumer Electronics Show-Booth 2177

Leisure time electronic products by category

As a service to buyers, the following chart lists leisure time electronic products to be marketed this year by classification. The items are listed as they were reported to LTE by their manufacturers. Included are general descriptions and promotional plans as TYPE

provided by the in this listing can be found on page 25. This turers appearing in this listing can be found on page 25. This furers appearing in future issues. (LTE is not directory will be updated, as needed, in future issues. (LTE is not responsible for omissions from these directories.)

PROMOTION

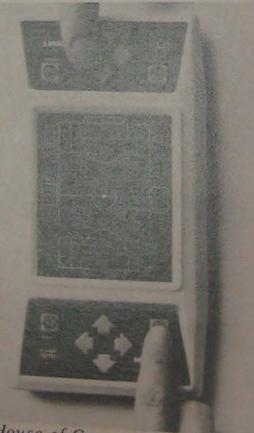
MFR.	PRODUCT		
SPORTS GAMES-FOOTBA	Football Superstar Football	handheld, tabletop, 1 or 2 players handheld, tabletop, multi-color display,	Spot TV 4th quarter.
Bambino	Football Classic	handheld, 1 or 2 players	National TV 3rd and 4th quarters; print 4th quarters
Bandai Coleco	Football Head to Head	handheld, 1 player	quarter. National TV 3rd and 4th quarters.
	Quarterback	handheld, 1 person	
Conic	Football II	handheld, 1 person handheld, 1 or 2 players	Spot TV, 61 markets, Sept. 29-Dec. 12
Entex	Color Football 4 Football 3	handheld, 1 or 2 players	National and spot TV (with Gin Rummy Pinball. July 21-Sept. 6 and Sept. 29. Dec. 12. National and spot TV in 61 markets, July 21-Sept. 6 and Sept. 29.
	7 0000	tabletop	
Epoch	Pro-Bowl Football	tabletop	National and spot TV, August into December.
Kenner	Live Action Football	u ti t as 2 players	National TV and print, 3rd quarter; spot
Mattel	Football 2	handheld, 1 or 2 players	September into December
	Football	handheld, 1 player	Spot TV September, October; print 3rd quarter.
Maxtron	Football 2 Football 1	handheld, 1 player handheld, 1 player	
MITCO	Proformance Football	handheld, liquid crystal display	National TV plus spot TV in 25 markets beginning August 25 in New York and L Angeles, October 15 in other markets.
Multitech	Pro-Quality Football	handheld	
Regency	Power Pigskin	handheld	
Straco (F.J. Strauss)	Football	handheld, 4 functions	

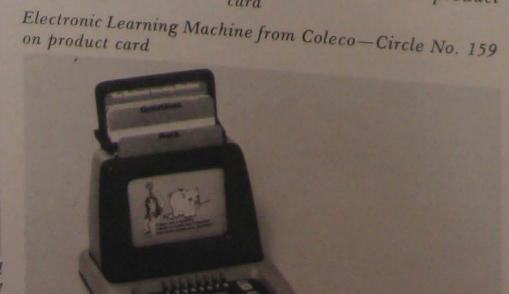


Atari Video Computer System-Circle No. 155 on product card



cle No. 158





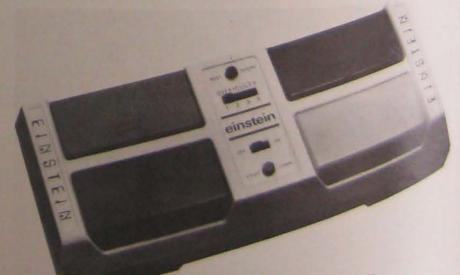
House of Games Electronic Soccer-Circle No. 156 on product



cle No. 161



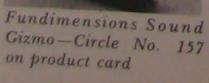
Gakken Project Kit-Cir- MITCO Proformance Football-Circle No. 160



Einstein from Castle Toy-Circle No. 162



Bambino Hand Held Color Games—Circle No. 163 on product card



62	м	179	
3	ж	7	

			222011CO, May/ June 1980 317
MFR.	PRODUCT	TYPE	PROMOTION
Tiger	Deluxe Football	handheld	Print August into December.
Tudor	Deluxe Football Football	handheld handheld	
SPORTS GAMES-BASEBAL	LL Electronic Competition II Baseball	handheld	
Amico	Baseball	handheld	
Bandai	Super Baseball Miracle Baseball Baseball	handheld, 1 or 2 players handheld, LCD display handheld	
Coleco	Head to Head	handheld, tabletop, 1 or 2 players	National TV 3rd and 4th quarters; print 4th quarter.
Conic	Baseball	handheld, 1 person	
Entex	Baseball 1, 2 and 3	handheld, 1 or 2 players	Spot TV 61 markets, Sept. 29-Dec. 12; National and spot TV (with Poker and Space Invader) July 21-Sept. 6 and Sept. 29- Dec. 12.
Epoch	Digit-Com 9	tabletop	
Fonas	2-Player Baseball	handheld	Spot TV in 19 markets, September through October.
Mattel	Baseball	handheld, 1 player	National TV June, July, September into December; Spot TV September, November, December; Print October into December.
Maxtron	Baseball	handheld, 1 player	Marie Committee of the
Mego	Pulsonic II Electronic Baseball	handheld, 1 or 2 players	
Multitech	Pro-Quality	handheld	
Regency	Baseball	handheld	
Tiger	Baseball	handheld	Print August into December.
SPORTS GAMES-BASKETB	BALL		
AHI	Fast Break Competition II Basketball	handheld	
Bambino	Dribble Away Basketball	handheld, tabletop, 1 or 2 players	Spot TV, 4th quarter.
Bandai	Basketball	handheld	
Coleco	Head to Head	handheld, 1 or 2 players	National TV 3rd and 4th quarters; Print 4t quarter.
Conic	Basketball	handheld, 1 player	
Entex	Basketball 2	handheld, 1 or 2 players	Spot TV 61 markets, Sept. 29-Dec. 12.



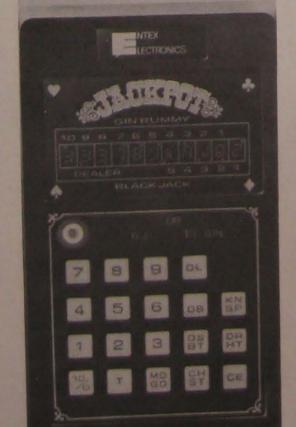
Mattel Brain Baffler—Circle No. 164 on product



Mego Fabulous Fred—Circle No. 166 on product card



Troller Autopulse 20 — Circle No. 165 on product card



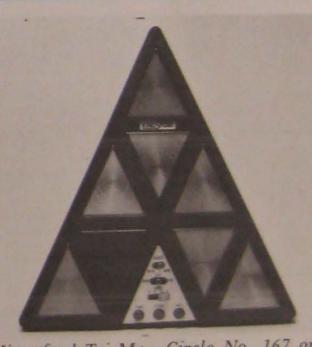
Entex Jackpot Gin Rummy/

Black Jack - Circle No. 170

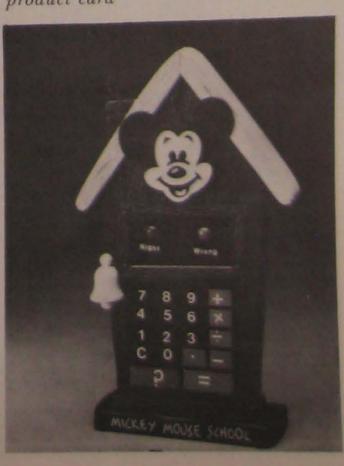
PATRICIA SPACE SHOT

Bandai Space Shot—Circle
No. 168 on product card

Unisonic Mickey Mouse
School—Circle No. 169



Kingsford Tri Me-Circle No. 167 on product card

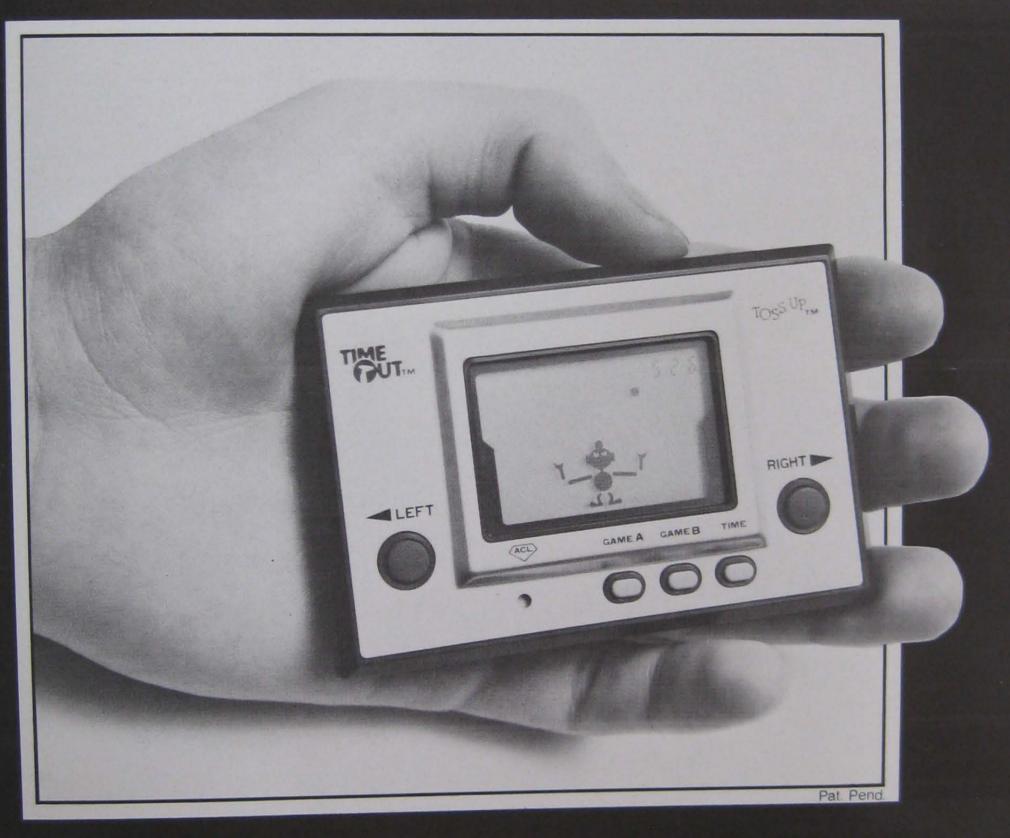


SIS TOY & HODE	VORLD, May/June	TYPE	PROMOTION
	PRODUCT	handheld, 1 or 2 players	National TV November, December; Spot TV September, O
MFR.		handheid, 1 of 2	Spot TV September, October; Print 4th quarter.
Mattel	Basketball 2	handheld, 1 player	quarter,
	Basketball	handheld, 1 player	
Maxtron	Basketball	handheld, 1 player	Print August into December.
Regency	Harlem Globetrotter	handheld tabletop, 1 or 2 players	
Tiger	Half Court Basketball		
Tomy		handheld, tabletop, 1 or 2 players	National TV 3rd and 4th quarters; print 4th quarters
SPORTS GAMES—HOCKEY Bambino	Lucky Puck Ice Hockey	handheld, 1 or 2 players	quarter. quarters; print 4t
Coleco	Head to Head	handheld, 1 player	
	U. January	handheld, 1 or 2 players	
Conic	Hockey	handheld, 1 or 2 players	Drine Ask augusta
Entex House of Games	Hockey 2	handheld, 1 or 2 players	Print 4th quarter
Mattel	Hockey	handheld, 1 player	
Maxtron	Hockey	handheld, tabletop, 1 or 2 players	Spot TV 4th quarter.
PORTS GAMES-SOCCER	Kick the Goal Soccer	handheld, tabletop, 1 or 2 pts, handheld, 1 or 2 players	National TV 3rd and 4th quarters; Print
Bambino Coleco	Head to Head	handheid, 1 of 2 plays	quarter.
Coleco		handheld, 1 person	
Conic	Soccer	handheld, 1 or 2 players	
Entex	Soccer 2	handheld, 1 or 2 players	Print 4th quarter.
House of Games	Soccer 2	handheld, 1 player handheld, 1 player	Print 4th quarter.
Mattel	Soccer 1	handheld, 1 player	
Maxtron	Soccer	Hallericity (F-27)	
ORTS GAMES-MISC.		handheld, 1 or 2 players	Spot TV 4th quarter.
Bambino	Knock-Em Out Boxing	handheld, 1 player	
Bandai	Champion Racer Foto-Electronic Bowling	tabletop, 1 or 2 players	
Cadaco Castle	Newport 500	tabletop Grand Prix racing game	
Conic	Multi-sport	handheld, 1 person	
	Auto Race	handheld, 1 person	
Entex	Tennis See	handheld, 1, 2 or 4 players	
Epoch	Executive Horse Race Tri-1	handheld baseball game plus space game	
Fonas	Football/Baseball/Soccer	handheld, 3 sports games in one	
House of Games	Electronic Sports Center	tabletop, baseball, football and	
Ideal	Electronic 2-Man Skeet	basicetball; 1 or 2 players multiple play, 1 or 2 players	National TV and spot TV in top 10 m
			September into December.
Kenner	Redline Drag Race	irancheid	National and spot TV, August into
Koala 'T'	Multi Sport 7	tublaton. Los Outerson ale	December.
		subletop, 1 or 2 players; plays seven sports games	
Mattel	Auto Race	handheld, 1 player	Print 4th quarter.
Maxtron	Multi-Sports	handheld, 1 player (soccer, basketball,	
Parker	Bank Shot	hockey)	
Regency	4-In-1	handheld pool	TV
		handheld (baseball, football, basketball, hockey)	
Tiger	Playmaker Raceway	handheld (hockey, soccer, basketball)	TV September into December.
Tomy	Tennis	Haridheid	Print August into December.
	Slimline Speedway	tabletop, 1 or 2 players	National TV Santamber into Decemb
TTLE GAMES	THE RESIDENCE OF THE PARTY OF T	handheld, 1 player	National TV September into Decemb
АНІ	Space Invaders		
Atari	Space Invader	handheld handheld 1 - 1	
Bambino	Space Laser Fight UFO Master Blaster Station	handheld, 1 player	TV
Bandai	Space Shot	handheld, 1 or 2 players handheld, 1 player	Spot TV 4th quarter.
	Missile Invader	handheld, 1 or 2 players	
	Super Galaxy Invader Torpedo Shoot	handheld handheld	
	Space Chasers Gunfighter	handheld	
	Electronic Battleship	handheld handheld	
Bradley	Servicinip	tabletop	National TV and spot TV in 120 mar
			Mational TV and spot TV in 120 mai
Bradley	Star Trek Zap		Oct 1 Dee 5
	Zap	handheld, 1 or 2 players	Oct. 1-Dec. 5.
Coleco		handheld, 1 or 2 players handheld handheld, 1 or 2 players	Oct. 1-Dec. 5. National TV 3rd and 4th quarters. Turn to Pa

PROMOTION



PALM HELD ELECTRONIC GAMES WITH A BUILT IN QUARTZ CLOCK



TIME

THE MAJOR BREAKTHROUGH IN ELECTRONIC GAME TECHNOLOGY.

Take time out and see us at the CONSUMER ELECTRONICS SHOW BOOTH NO. 2147

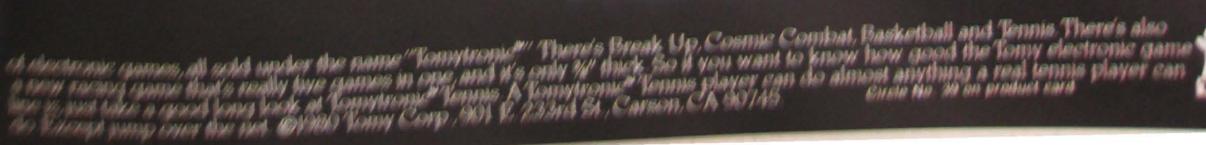
THIS TENNIS PLAYER CAN SERVE, HIT DEEP, PLAY THE NET AND MOVE ALL OVER THE COURT



It's sort of unfair to compare our Tomytronic" Tennis player to a real tennis player. After all, a real tennis player will get tired after a player can serve and move from side to side in the backcourt or at the net. So can a Tomytronic Tennis player will get tired after a electronic game is so realistic it's almost uncanny. Not to mention being a lot of fun. This is just one example of Tomy's outstanding life.

THIS TENNIS PLAYER CAN SERVE, HIT DEEP, PLAY THE NET AND MOVE ALL OVER THE COURT.







	PRODUCT	TYPE	PROMOTION
MFR.	Space Invader	handheld, 1 player	Spot TV 61 markets, Sept. 29-Dec. 12; National and spot TV (with Baseball and Poker) July 21-Sept. 6 and Sept. 20
			Poker) July 21-Sept. 6 and Sept. 29-Dec.
Epoch	Invader From Space	tabletop	National and spot TV, August into
Kenner	Star Wars Battle Command	tabletop	December.
	•	tabletop	
Lakeside	Intercept	handheld, 1 player	
Mattel	Flash Gordon Sub Chase	handheld, 1 player handheld, 1 or 2 players	
	Armor Battle	handheld space race game, 1 or 2	
Mega	SR75	players	
Mego	Invasion From Space	handheld, tabletop, 15 skill levels	Spot TV.
Shinsei	Alien Avenger	handheld	
Simser	Gunfighter	handheld handheld	
	Hit Scramble	handheld	
Straco (F.J. Strauss)	Space Invaders and Breakout	handheld	
Tiger	Sub Wars	handheld, 1 player	
Tomy	Cosmic Combat		
LLOW-THE-LEADER GA	MES	tabletop, multiple play	National and spot TV in 120 markets,
Bradley	Simon		Oct. 1-Dec. 5.
	Super Simon	tabletop, multiple play	Same as above.
	Pocket Simon	tabletop, multiple play	
Castle	Einstein	handheld	National TV, June through December
Kingsford	Tri Me	tabletop tabletop	
	Match Me Mini Match Me	handheld	
Koala 'T'	Mimic	tabletop or handheld	Spot TV 12-17 markets, 4th quarter.
	Mini Mind	handheld	
Regency	Super Touch	handheld	
Tiger	Copy Cat	handheld	TV 4th quarter.
	Ditto	handheld	
GET GAMES Ideal	Tin Can Alley	target game, 2 or more players	National TV and spot TV in top 10 m
		target game, 2 or more players	September into December.
Invicta	Quickfire	target game with 6 modes, 3 skill levels, 1 or more players	
Placo	Scan, Strike 'N Score	target gallery, 2 or more players	Spot TV in 7 markets, 4th quarter.
DHELD PINBALL GAM	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN COLUMN 2 IS NOT THE OWNER,		
AHI	Electronic Pinball	handheld	
	Space Invaders II Pinball	tabletop	
Amico	Pinball	handheld	
Castle	Kingpin II	tabletop	National TV, August through Decem
Entex	Raise the Devil	1 player	National and spot TV (with Gin Rum Color Football) July 21-Sept. 6 and S
Parker	Wildfire	1 player	29-Dec. 12.
Tiger	Rocket Pinball	1 player	TV.
E PINBALL GAMES		i piayei	TV September into December.
Brunswick	Alive		
ELLANEOUS GAMES Atari	Touch Me	THE PARTY OF THE P	
Bambino	Safari	handheld, multiple play	
Bandai	Racetime	handheld, 1 player	Spot TV 4th quarter.
	Flightime	handheld handheld	
Bradley	Comp IV		
	Milton	handheld numbers game	National TV and spot TV in 120 mark
	Plus One	tabletop multiple play speech game	Oct. 1 to Dec. 5. Same as above.
	Microvisian	game game and tabletop multiple play	Same as above.
	Microvision	handheld, multiple play game	Sama as about
	Omni	with 8 interchangeable cartridges tabletop, multiple play game with 6 interchangeable tapes	Same as above.
Castle	Tactix Satisfaction	- and geable tapes	
	Satisfaction Name That Tune	tabletop, plays four stretegy games electronic board game	National TV, August through Decemb
Castle Rock	Advanced I-Quiz	tabletop family game	National TV, August through December. National TV, September through December. National TV, July through December.
Conic	IQ	handheld quiz game with sound response	Additional TV, July through December
Educational Design	Le Game	nationeto, i person	
Entex	MAC	multiple-play game	
	Musical Marvin	multi-game computer, 1 or 2 players multi-game, organ, recorder, 1 to 4	Spot TV in 61 markets, Sept 29-Dec. 1

IN 1980, LAKESIDE IS PLAYING TO WIN:

This year, we've got 2 great new electronic games that will really shock the competition

LAKESIDE'S LE BOOM

The electronic game that will blow your mind! Realistic sounds get louder and louder while you search for clues that will help you defuse Lakeside's Le Boom before it goes boom!



The electronic game that tests your reflexes again the speeds of light and sound. Try and keep up as Strobe speeds up the flashing and speeds up the sounds. Match Strobe's top speed and hear the victory tune.



Circle No. 9 on product card

S24 TOY & HUBBI			PROMOTION
MFR.	PRODUCT	TYPE	
WITA.	Hioda	handheld, 1 player	
Entex	Blast It	tabletop	
Epoch	Detective Executive Decision Maker Executive Roulette Executive Dice	tabletop tabletop tabletop musical electronic multiple game and	National and spot TV, prime time and
GAF	Melody Madness	two-octave instrument, tabletop and handheld. 1 to 4 players	children's programming beginning Oct. 1.
House of Games	Wizard	tabletop, plays 4 different games, up to 4 players 1 layer 5 different games	National TV and spot TV in 35 markets beginning in October.
	Game Machine 2 Mini Game Machine	handheld, plays 4 different games detective game, 1 to 4 players	National TV and spot TV in top 20 markets, September into December.
Ideal	Electronic Detective Maniac	handheld, multiple play game 1-4	Same as above.
	Flash	players multiple play, 1 to 5 players	National TV and spot TV in top 30 markets, August into December. Same as above.
	The Generals	two-player strategy game	National syndicated TV, Fall.
Invicta	Electronic MasterMind	handheld logic game, 1 or more players handheld logic game, 1 or more players	
Koala 'T'	Supersonic Electronic MasterMind Fast On Your Feet	memory game for floor play by 1-4 persons	Spot TV 12-17 markets, 4th quarter.
Lakeside	Computer Perfection Le Boom	multiple play, tabletop multiple play, tabletop multiple play, tabletop action game	Spot TV, 4th quarter. National and spot TV, 4th quarter. National and spot TV, 4th quarter.
Mattel	Strobe Brain Baffler	handheld, multiple play word and numbers games, 1 or 2 players	National TV 4th quarter, Spot TV November.
Maxtron	Tri-Games I.Q. Test	handheld handheld	
Mego	Fabulous Fred	tabletop unit that plays 10 different games	National and spot TV.
Miner	Yacht Four	multiple play, 1 to 4 players	
Parker	Split Second Merlin Stop Thief	multiple play multiple play electronic board game	TV. TV. TV.
Selchow & Righter	Sensor Lexor	electronic word game computer word game	National TV, 4th quarter. Same as above.
Shinsei	Chimps & Coconuts	handheld	
Tarco	Wizard of Odds	handheld number strategy game	National and spot TV, 4th quarter.
Tiger	Think Tank 2-In-1	handheld handheld	TV September into December.
Tomy	Break Up	handheld	

Turn to Page S26



Selchow & Righter Lexor—Circle No. 171 on product card



Tomytronics Racing—Circle No. 175 on product card



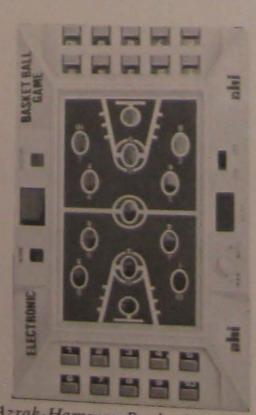
Cadaco's Foto-Electronic Bowling-Circle No. 173 on product card



Invicta's Electronic MasterMind
—Circle No. 174 on product card



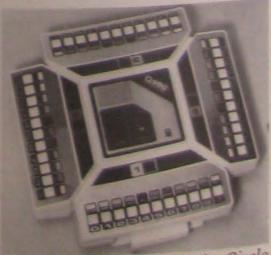
Lakeside Strobe - Circle No. 176 on product card



Azrak-Hamway Basketball—Circle No. 177 on product card



Parker Brothers Split Second— Circle No. 172 on product card



Milton Bradley Omni-Circle No. 178 on product card

pirectory of leisure time electronics manufacturers

Below is an alphabetical listing of manufacturers (with their addresses) who are identified in the leisure time product category listing that begins on Page S16.

Activision, Inc. 759 E. Evelyn Ave. Sunnyvale, Calif. 94086

Amico, Inc. 3633 "I" St. philadelphia, Pa. 19134

APF Electronics, Inc. 444 Madison Ave. New York, N.Y. 10022

Atari, Inc. 1265 Borregas Sunnyvale, Calif. 94086

Azrak-Hamway International, Inc. (Remco, Power Command) 1107 Broadway New York, N.Y. 10010

Bambino, Inc. 2049 Century Park, E. Los Angeles, Calif. 90067

Bandai America, Inc. 54 Metro Way Secaucus, N.J. 07094

Milton Bradley Co. 443 Shaker Rd. E. Longmeadow, Mass. 01028

Brunswick Corp., Consumer Division One Brunswick Plaza Skokie, III. 60077

Cadaco, Inc. 310 W. Polk St. Chicago, III. 60607

Castle Rock Div. of K-Tel 11311 K-Tel Drive Minnetonka, Minn. 55344

Castle Toy Company, Inc. Harrison Ave. Newport, R.I. 02840

Coleco Industries, Inc. 945 Asylum Ave. Hartford, Conn. 06105

Conic International 305 Fifth Ave. New York, N.Y. 10016

Daewoo International (America)
Corp.
1055 W. Victoria
Compton, Calif. 90220

Educational Design, Inc. 47 W. 13th St. New York, N.Y. 10011

Entex Industries, Inc. 303 W. Artesia Blvd. Compton, Calif. 90220

Epoch Playthings, Inc. 230 Park Ave. New York, N.Y. 10017

Fidelity Electronics, Ltd. 8800 N.W. 36th St. Miami, Fla. 33778 Fonas Corporation Box 759 Latrobe, Pa. 15650

Fundimensions 26750 23 Mile Rd. Mt. Clemens, Mich. 48045

GAF Corporation 140 W. 51st St. New York, N.Y. 10020

House of Games, Inc. 2633 Greenleaf Ave. Elk Grove Village, III. 60007 Ideal Toy Corporation 184-10 Jamaica Ave. Hollis, N.Y. 11423

Invicta Plastics (USA) Ltd. 200 Fifth Ave. New York, N.Y. 10010

Kenner Products 1014 Vine St. Cincinnati, Ohio 45202

Kingsford Ltd. 200 Fifth Ave. New York, N.Y. 10010 Koala 'T' Toys, Inc. 3605 Woodhead Dr., Suite 110 Northbrook, III. 60062

Kosmos International 700 Candler Building Atlanta, Ga. 30303

Lakeside Games 4400 W. 78th St. Minneapolis, Minn. 55436

Continued on Page S27

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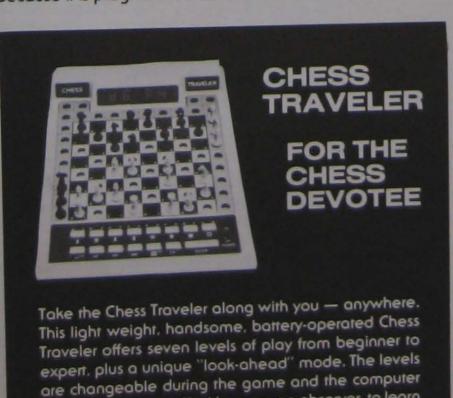
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520 101 4			TYPE	
	MFR.	PRODUCT		National TV 3rd and 4th quarters; print.
BACKGAMMON, C	HESS, C	HECKERS Sensory Voice Chess Challenger	computer chess game with voice response, sensory board computer chess game, sensory board computer chess game, voice response	
	, deline,	Consony Chess Challenger	annulle diversi in a levels	
		Voice Chess Challenger Chess Challenger "10"	computer chess game, 7 skill levels	
		Chase Challenger /	PARTITE CHOOSE DE MARTINE DE VEIS	
		Chess Challenger "4"	computer checkers game, 4 skill levels computer checkers game, 2 skill levels computer checkgammon game	
		Checkers Challenger "2" Backgammon Challenger	computer checkers game, computer backgammon game computer chess game	National TV June into December.
Ma	extron	Electronic Computer Chess	vies of handheld computer	National IV Julie Into December.
	ryom	OMAR Series I-IV		
		Gammonmaster II	computer backgaring	
		Flectronic Chess	computer chess game	
		Grandmaster Traveler Delta I	advanced computer chess game with advanced computer chess game with	
		Chess System III	advanced computer chess game optional LCD display and chess printer	
CARD GAMES	Entex	Jackpot Gin Rummy and Blackjack	handheld, 1 player	Spot TV 61 markets, Sept. 29-Dec. 12; National and spot TV (with Color Football and Pinball) July 21-Sept. 6 and Sept. 29- Dec. 12.
		Poker	handheld, 1 player	Spot TV 61 markets, Sept. 29-Dec. 12; National and spot TV (with Baseball and Space Invader) July 21-Sept. 6 and Sept. 29- Dec. 12.
			computer bridge game, voice response	National TV 4th quarter, print.
Fid	delity	Voice Bride Challenger Bridge Challenger	computer bridge game	
		Bridge Bidder	computer bridge game	Spot TV September, November; National
M	lattel	Computer Gin	computer gin game	TV 4th quarter
Tr	yom	Charles Goren Bridgemaster	programmable computer bridge game and other games	
Unis	onic	Jimmy the Greek Blackjack	desktop and pocket-size games	
UN LEARNING AID		Leave in Machine	child's computer	National TV and print, 3rd and 4th quarters
Co	leco	Learning Machine Quiz Wiz	computer quiz game	Same as above.
		Lil Genius	tabletop match machine	
	onas	Kiddy Computer	electronic robot that plays 8-track tapes	Spot TV.
		2 XL	handheld, 1 person	Spot TV 25 markets, Nov. 16-Dec. 20.
National Semicondu		Quiz Kid Quiz Kid Speller	handheld, 1 person	Same as above.
Texas Instum		Speak & Spell Spelling B First Watch Mr. Challenger	child's spelling aid child's word learning aid child's aid for learning time letter and word game	
Uniso		Mickey Mouse Fun and Numbers	children's learning aid	
		Schoolhouse Mickey Mouse Fun and Numbers Flying Saucer	children's learning aid	
DEO GAMES				
Activi		Boxing, Drag Race, Checkers, Fishing Derby	cartridges for Atari's Video Computer System	
,		MP 1000	video game system	
A	tari	Video Computer System	programmable video game system	
Co	leco	Telstar Colortroid	video game, 1 or 2 players	
Magna	avox	Telstar Marksman Odyssey	video game, 1 or 2 players video game with 27 games cartridges,	National TV November into December.
N	lego	Time-out	1 to 4 players palm-sized video game featuring built-in continuous-running quartz clock; four	National and spot TV.
OME VUDEO SVOT	D.C.		units available	
OME VIDEO SYSTE	ERS APF	Imagination Machine	microcomputer utilizing game cartridges and cassette programs; unit features	s Fall TV.
A	Atari	800 400	53-key typewriter keyboard personal computer	
M	attel	Intellivision	master component utilizing game and learning cartridges; keyboard compo-	National and spot TV and print campaigr
	4-10		nent using programmed cassettes; 20 cartridges; 8 cassettes	
ISCELLANEOUS IT	EMS	Zodiac		
THE RESERVE THE PARTY OF THE PA	smos	Kosmos 1, 2, Mini-Bio, Sports	astrology computer	
		Biorhythm	biorhythm computers	

PROMOTION

pirectory of manufacturers

Continued from Page S25
Magnavox Consumer Electronics

Co. 1700 Magnavox Way Ft. Wayne, Ind. 46804.

Management Investment & Technology Co., Ltd. (MITCO) 1107 Broadway, Room 1204 New York, N.Y. 10010

Mattel Electronics 5150 Rosecrans Ave. Hawthorne, Calif. 90250

Maxtron 7807A Telegraph Rd. Montebello, Calif. 90640

Mega Instrument Ltd. 104 King Lam St., 7th Floor Sha Wan Kowloon, Hong Kong

Mego Corporation 41 Madison Ave. New York, N.Y. 10010

Miner Industries, Inc. 200 Fifth Ave. New York, N.Y. 10010

Multitech Intl. (Far East) Ltd. Grand Building Hong Kong

National Semiconductor Corp. 2900 Semiconductor Drive Santa Clara, Calif. 95051

Parker Brothers 50 Dunham Road Beverly, Mass. 01915

Bradley expands electronic output

SPRINGFIELD, Mass.—Milton Bradley Company is expanding its operations in East Longmeadow, Mass., in order to handle "increasing consumer demand" for its electronic games and toys.

The company is building an office, manufacturing and warehouse facility on a 38-acre tract adjacent to its main manufacturing plant. Scheduled to be fully operational by July, the \$4.8 million facility will be used for assembly and final packing of electronic games and toys, and as a warehouse for receiving and holding raw materials needed for electronic assembly operations.

Some 500 people will be employed in the new building, "a substantial portion of whom will be new personnel," says James J. Shea, Jr., Bradley's president and chairman.

Bradley has also leased 22,000 square feet of an existing fivestory plant in Fall River, Mass. to support demand for its electronic games and toys. There, some 225 persons from the Fall River community are being employed to assemble electronic modules.

Placo Products Company P.O. Box 3456 Torrance, Calif. 90510

Regency Electronics (HK) Ltd. 350 Fifth Ave., Suite 3112 New York, N.Y. 10001

Schaper Mfg. Co., Inc. 9909 S. Shore Blvd. Minneapolis, Minn. 55391

Selchow & Righter 2215 Union Boulevard Bay Shore, N.Y. 11706 Shinsei 12951 166th St. Cerritos, Calif. 90701

F.J. Strauss Co., Inc. 1107 Broadway New York, N.Y. 10010

Tarco, Inc. 2762 N. Clybourn Chicago, III. 60614

Texas Instruments, Inc. P.O. Box 225102 Dallas, Tex. 75265

Tiger Electronic Toys, Inc. 909 E. Orchard Mundelein, III. 60060 Tomy Corporation 901 E. 233rd St. Carson, Calif. 90745

Tryom, Inc. 23500 Mercantile Rd. Beachwood, Ohio 44122

Troller Corp. 4445 N. Ravenswood Ave. Chicago, III. 60640

Tudor Games, Inc. 176 Johnson St. Brooklyn, N.Y. 11201

Unisonic Products Corp. 1115 Broadway New York, N.Y. 10010

FOUR REASONS CONSUMERS WILL BE ASKING FOR GE RECHARGEABLES THIS YEAR

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greater numbers of
batteries more quickly.

The new "Double
Charger" charges more
batteries faster than
previous GE chargers. It's
a low-cost charger that
even charges two different
size batteries at once.

GE Rechargeables make good sense in

GE Rechargeables are designed with today's electronic battery-operated products in mind. Retailers will hear a lot of requests for GE Rechargeables this year and here are four good reasons why.

...1. GE Rechargeables can last for years. They're the "in" power source for today's sophisticated toys, games and hobbies.

In addition to providing top performance, GE Rechargeables can power many battery-operated products for years, not just days or weeks. They can be recharged up to 1,000 times, and they save money because they don't have to be thrown away. In addition, charging costs are only about 5 cents a month.

...2. Many leading manufacturers of battery-operated products soon will be enclosing "\$2
GE Rechargeable Rebate Coupons"

RECHARGEABLE RATTERY

in their products.

When consumers buy nationally advertised products containing the coupon, they simply purchase a charger, complete the coupon, send it back to GE, and we forward them their \$2 rebate in the mail.

...3. Consumers will be looking for battery-operated products that display this sticker — it means continued savings to them after they buy the GE Rechargeable Battery System.

National ads will be announcing this rebate program in leading

consumer magazines in the fall and winter of 1980. Consumers will be looking for the specially marked packages offering the GE \$2 Rebate.



today's world.
And we're letting consumers know about it through our special \$2 Rebate Program and through national advertising. Be ready to give your customers what they'll be requesting — GE Rechargeables. Stock up now!

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We bring good things to life.
GENERAL & ELECTRIC

Circle No. 11 on product card

Computerized chess and backgammon sets, which enjoy a dedicated following, will be sold at more popular price points and in a wider range of retail outlets this year.

There are two types of electronic games, "dexterity" games and "intelligent" games, maintains David Rogers, vice-president/ marketing and sales for Tryom, Inc. "The 'dexterity' games are primarily aimed at the younger child. 'Intelligent' games, like computerized backgammon and chess, build on the player's intelligence and ingenuity and appeal to a wider age group."

Tryom has successfully sold computerized backgammon sets retailing above \$100. This year the firm has miniaturized some of its backgammon sets to a handheld size, thereby lowering price points to about \$30.

The firm is also introducing a group of computerized chess games whose prices run the gamut from the high end to a lowerpriced handheld item.

Such games represent a longterm investment for the consumer, Rogers holds. "Backgammon and chess not only provide an enjoyment factor, but help develop new skills in playing each game. That's what takes us out of



Tryom's portable Chess Traveler (Circle No. 179 on product card).

the novelty area. The computer provides good competition for the person who cannot find another player to play with," he points out.

HIGH DOLLAR VOLUME

Rogers reports that dollar volume growth in this electronic game area has been comparable to that in handheld games, because of the higher price points involved. "This is a sizable business, and it's not a seasonal item," he says. "There's a more extended selling life period. People don't necessarily buy chess as a Christmas present, and many persons buy a lot of the games for themselves."

Tryom's games have been sold previously in department store electronics departments and

game stores and through catalog operations. The firm is now entering toy industry distribution with its enlarged line.

In the adult game market, 50 percent markup is "customary," notes Rogers. "In the toy industry, it's considered good when you can obtain 40 percent markup on a handheld electronic game, and that's what you can make with chess and back-

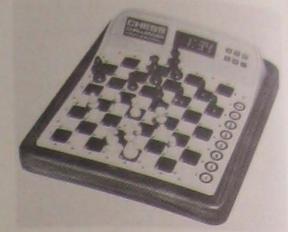
"You don't get the kind of price-cutting in the 'intelligent' game category that you do in the 'dexterity' category," Rogers adds. "There are fewer manufacturers, and the retailer can make bigger grosses. That is a definite plus."

The market for electronic computer chess games is extremely diverse, but "more male-dominated," reports Peter Nasca of Fidelity Electronics. "Consumers have tremendous loyalty-not to the machine, but to chess."

MORE ADULT PURCHASERS

Higher price points put these items outside the realm of a toy, says Nasca. "The majority of purchasers fall in the 18-45 age group."

Fidelity is also expanding its distribution this year from de-



Fidelity's Sensory Voice Chess Challenger (Circle No. 180).

partment stores and specialty stores into the larger toy chains. The firm's items retail from \$65 for a computer checkers game to \$350 for a new voice-sensory chess game that incorporates a voice synthesizer.

Fidelity sold \$2.5 million worth of its computer chess games in 1977, its first year in the business, and is looking for \$100 million worth of sales this year.

"This is not a novelty item," emphasizes Nasca. "The consumer is aware of the higher price points, but because of his love of the game he is willing to make a long-term commitment."

Nasca says there is some impulse buying, but notes that sales are consistent, "with a heavy skew to the third and fourth quarters."

MFR.	PRODUCT	TYPE	PROMOTION
	Bio-Clock Astro	desktop biorhythm computer astrological computer	
Mattel	Horoscope Computer Horse Race Analyzer	astrological computer racing form computer	Print September into December.
Troller	Autopulse	automatic computer phone dialer	
ROGRAMMABLE VEHICL	ES CONTRACTOR OF THE PROPERTY		
Bradley	Big Trak	computer tank	National TV and spot TV in 120 markets, Oct. 1-Dec. 5.
Entex	Chuck Truck	programmable, radio control voice command truck	Spot TV in 61 markets, Sept. 29-Dec. 12.
Fundimensions	Brain Z	programmable sports car	Spot TV in top 20 markets, Oct. 27-Nov. 9 and Nov. 24-Dec. 7.
R/C VEHICLES	The state of the s		
AHI/Remco	Fat Wheels	r/c vehicle	National and spot TV October through
AHI/Power Command The firm also offers a broad	Turbo Firebird Coast Guard Cutter Fang 4-wheel drive Electro Commander Spider-Man car range of other r/c vehicles.)	r/c vehicle r/c boat r/c vehicle r/c plane r/c vehicle	December,
Amico	Corvette Porsche Cruiser 18 wheeler	r/c car r/c car with sound r/c boat full-function = /c to 1	
Daewoo	Ferrari 512M Mazda RX7 Competition RX 7	full-function r/c truck 1/24 scale, 3-function car 1/20 scale, 3-function car 1/20 scale, 4-function car with LED lights	
Entex	Dan Van Motorcycle	r/c word recognition van	Specific or an analysis
Schaper	XRC	r/c motorcycle r/c motorcycle	Spot TV in 61 markets, Sept. 29-Dec. 12. Same as above.
Shinsei	Auto Carrier Lancia Stratos Lamborghini countach De Tomaso Pantera Gts Fire Fox	r/c Peterbuilt r/c vehicle r/c vehicle r/c vehicle r/c racer	Spot TV in top 20 markets, October into December.

Montgomery Ward mounts new electronic game sections

CHICAGO - Some 100 to 125 Montgomery Ward retail stores are in the process of mounting floor-to-ceiling, self-contained electronic game sections in their toy departments.

Geared toward peak season selling, the 600-square-foot sections will feature secured demonstrator models, will be staffed with a salesperson-demonstrator, and will hold all of the department's electronic game inventory.

Several video games will also be demonstrated in the area, but consumers interested in buying them will be directed to the sporting goods department, where video games are being stocked.

The merchandising move represents an expansion of a highly sucessful test program run by Ward's last year, reports Marv Williams, the chain's national



Marv Williams, Ward's national merchandise manager/toys.

merchandise manager/toys. The "hyper-mache" sections have been designated for stores of 100,000 square feet or more, located in major metropolitan areas. Williams expects that by 1982 some 200 of the chain's retail stores will be participating in the program.

The hyper-mache format extends the toy department's regular 4-foot bay to the ceiling, using plywood or other means. After the Christmas selling season, the larger sections will be dismantled, but a 4-foot, secured area will remain to continue carrying "basic" electronic game merchandise.

In 1979, Ward's experienced a "complete sellout" of the 25 SKUs of electronic games it carried, says Williams. He notes that the chain was on allocation from its suppliers, and placed merchandise on the floor as soon as it arrived. Williams expects a similar situation to exist this year.

"I think the problem of inadequate chip supply will remain for another two or three years," he comments.

Ward's has added only five

SKUs to its electronic game merchandise mix, even though the number of electronic games shown by manufacturers this year has tripled. Last year's experience showed that consumers overwhelmingly preferred the branded, heavily advertised items, notes Williams.

SUPPORT FOR 'MAJORS'

"We've based our buying decisions on popularity, the amount of advertising the manufacturer will do on TV and the uniqueness of the item," he says. "We will carry items only from the major manufacturers. While some of the secondary items may be of high quality, we don't think consumers will be attracted to them in great numbers."

Ward's has allocated more money to the toy department, to cover its planned expenditures on electronic games without reducing its commitment to other toy categories. Williams finds that electronic games did not impact on other toy items in 1979, although it may have taken away some business from the sporting goods department.

SEES FEWER UNIT SALES

With electronics expanding into other toy categories than games this year, he sees the probability of fewer unit sales, at higher price points. "Staple toy goods will still sell, though," he comments, "although not in the multiples we've seen in the past."

The extremely high cost of Continued on Page S30

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HOUSTON - Some 400 electron-

ics SKUs will be featured in each outlet of Games People Play, a new chain of "complete game" specialty stores being launched in

The first of the 1,500 squarefoot mall stores was scheduled to open in late May in the Houston area, with two other outlets planned for later this year. "Eventually we hope to open in every shopping center in Texas-we plan to be the Radio Shack of the game business," declares Joe Frank, president and founder of the chain.

Noting that games account for 25 percent of consumer dollars spent in the leisure recreational category, Frank sees a major hole in the marketplace for serviceoriented game specialty stores and aims to help fill it.

Frank has many years of experience in a similar retailing area, having founded Playhouse Toy Stores, a 16-unit chain of toy specialty stores, some 40 years ago.

'CASINO-LIKE' ATMOSPHERE

Games People Play outlets will be designed to draw consumers into the stores to play and learn about the entire range of games being stocked, says Frank. "There will be a casino, come-play-withme atmosphere. Each game will be fully visible and hand-playable, often with our specialty trained salespeople."

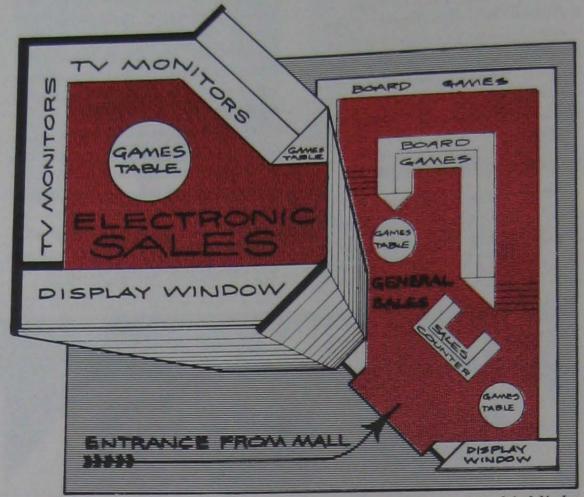
"We will provide the lure of the arcades. Consumers will feel that they will have to come in and play a game, and we'll want them to, so we can tell them about what we have."

Frank says his stores will carry electronics ranging from handheld games, learning aids and small calculators up to a selection of personal computers retailing for \$400. "We will not discount," he states. "We're not going to be high in our prices, but we're not going to be cheap. We're selling a service, not just an electronic

TRAINS STORE PERSONNEL

Personalized service is vitally important in familiarizing consumers with today's extremely sophisticated games, Frank believes. As a result, he has set up a detailed, semi-technical training program for his future store personnel.

"We're training people who like games and computers, and also enjoy the challenge of being able to demonstrate," he reports. "We're instructing them on what are the component parts; what they do; how you play the game and what you are trying to



This depiction of the Games People Play basic floor plan highlights the electronic games section, featuring TV monitors and games tables.

achieve in playing it. We feel our people will be able to answer most questions they will be asked by our customers."

Electronic games will be displayed in a special area at the front, highlighted by electronic lettered signs above the demonstrator models.

Another area of the store will include game-playing tables, on which customers can play and try out some of the new non-electronic strategy games. The stores will also carry in-depth selections of board games for children and adults.

A constant series of promotional events will call attention to

the store and its specialized inventory. For the opening of the first unit, a "consumer electronics show" was scheduled on the outside mall. There, representatives from major game manufacturers set up displays of their items and conducted consumer seminars on how the games are played.

PLANS MONTHLY PROMOS

Games People Play also plans to run a different promotional event each month, sponsored by top game manufacturers. Among them will be contests featuring Monopoly, Othello, SPI war games, TSR Dungeons & Dragons, MasterMind, bridge, crib-

New game specialty chain to feature 400 electronic SKUs bage, chess, backgammon and other games. These contests will be designed to bring "anywhere from 1,000 to 5,000 people to the mall for each event," says Frank,

Students on college campuses, who enjoy playing strategy games, will be solicited by direct mail. A number of new electronic game promotions are also planned.

Frank says that the format of his new stores was devised after he personally surveyed, in a sixmonth tour, how electronic games are being sold across the country. "We concluded that personal service is an absolutely essential element," he states. "We intend to be very skilled and sophisticated in our merchandising. The demand for electronic games is apparently insatiable, and we feel we are going to be prepared with both product and expertise."

New Unisonic division to make learning aids

NEW YORK - Unisonic Products Corporation, a leading producer of electronic calculators, has formed a new division to specialize in the sales of electronic learning aids and games.

The company says it plans a line of 12 different items, each featuring "different cosmetics, price points and functions."

The company has obtained a license from Walt Disney Productions to use Disney characters in its learning aids. Two initial items will be premiered at the June CES.

Unisonic plans other activities and other licensed characters for the line.

Wards mounts electronic game areas in over 100 stores

Continued from Page S29 money, and the effect a highly

appealing product area like electronic games can have on other merchandise categories, must be taken into account in making buying decisions, comments Williams. "You must select very carefully, and keep your SKUs low, because your selling prices are now higher."

The longer lead times needed to produce sophisticated electronic games is causing Ward's to pay more attention to manufacturers' delivery capability. "We're doing this to protect our customers," says Williams. "Delivery performance is especially important in our catalog business, because we want to have all the products we list available for our customers."

"in ordering, we used to bet a little bit more on the come a few years back," he adds. "Now, if we see a product in February that looks as though it will be shipped in September or October, we most likely will not buy it."

WORKS WITH PRODUCERS

Increasingly sophisticated product has brought many engineers into the toy industry, Williams points out. As a result, he believes manufacturers "can give us a realistic fix on expected delivery dates. All of them are very honest about it. Every manufacturer we use has given us plenty of time to do something about an item we are considering listing in the catalog. If they know they're going to be shipping later than anticipated, they'll strongly recommend that we carry the item only at retail, and not in the catalog."

Electronic games require much more extensive use of point-ofpurchase materials than do other

items, Williams notes. "As products get more sophisticated, you've got to explain how something functions. A number of the electronic games are difficult to sell, if you don't have instructions at the point-of-purchase."

Ward's new display areas will feature 5-inch-by-7-inch cards explaining the functions of each game, and how they are carried out. All the games will be securitylocked with a tether device, but will be functional, to be played by the consumer or demonstrated.

USES SOME JOBBERS

The chain expects to use jobbers early in the year, "when necessary," and late in the fall, "only at such time when it is im possible to get the merchandise from the factory." This policy is followed in order to stay in a competitive pricing position, Williams explains.

Home computer buyer seeks good results, minimal effort

BY TIMOTHY HUBER Vice-President/Marketing Mattel Electronics

An aura of wizardry surrounds the computer, at least in the eyes of the general public. Geniuses created them. Geniuses make them work...and now we are trying to sell them to John Doe for use in his home! The question is, does it take a genius to sell one?

There are three kinds of home computer customers. Only one of them has the trappings of what we might call a genius. This consumer is the hobbyist. He may also

good cameras, fine stereo components, and the latest in color television sets.

Typically, he has been enjoying electronic games for some time. They have caught his fancy and given him a basic knowledge of what electronic devices and appliances can do for him. Yet, he has two requirements of the things he buys-he wants them hassle-free and easy to operate.

The personal home computer

consumer can be compared to the consumer of fine cameras. In the camera industry, the advent of the automatic single lens reflex opened up the potential market, significantly increasing annual sales by five and six-fold. This development underlined the fact that consumers are interested in the end product-a beautiful photograph-and the ability to shoot it with ease. He wants good results, with no worry and a mini-

mum amount of effort.

This same attitude prevails in the decision to purchase a home computer-the promise of good results with the expenditure of little effort. RAM and ROM, OHMS, memory and silicon chips mean nothing to him. Bytes leave him cold and the concept of computer languages sends him runing for the door.

He is, however, a careful buy-Continued on Page S32



Timothy Huber

be an engineer or physicist by trade. He has been the target of the personal home computer industry since its beginnings in

This consumer knows it all. He either knows computer languages or wants to learn them. And he wants to do his own programming.

Intimidating as he may seem, he represents an insignificant percentage of the potential sales.

A second kind of user is the small businessman, who is looking for a system that is reasonably elaborate and requires custom software programmed by himself or the retailer. He will want answers to questions about programmability, capabilities, storage, customization, operation, package costs, etc. In addition, this consumer will most likely make his purchase at one of the many free-standing "computer boutiques" springing up across the country rather than through chain department stores or the mass merchant.

DRAWN BY 'SEX APPEAL'

A third kind of consumer has a different set of needs. He has money to spend and is thrilled with the idea of being an innovative front-runner. In marketing terms, he is called the "leader" who is relied on by retailers to buy new products and introduce them to his friends. For him, these offer a certain "sex appeal." He likes

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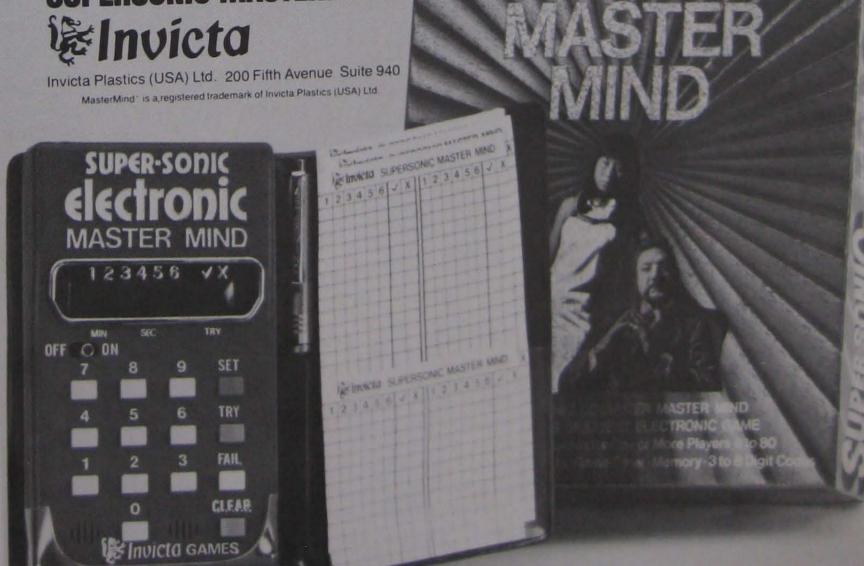
Space age sound effects

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Home computer customer is selective, yet needs some educating

Continued from Page S31 er, and very well educated in those areas that matter to himand RAM and ROM memory systems do not matter. OHMS matter only in that they are a term with a number attached. He learns that ten OHMS are better than six, yet does not know nor care why. The term is a comfortable measuring rod in a strange land, and is serviceable without requiring further knowledge on

Typically, this personal home computer consumer will come into the store, ask about the system, use the demonstrator models and take some literature home for study. He will also read an article or two, collecting information about the system's capabilities, degree of difficulty to operate, reliability and what gives him the best deal for his dollar. When he

the part of the retail customer.

is convinced the system will work for him with little effort and no anxiety, he will most likely buy it.

The tough question is, how do you give this consumer the information he needs and wants without sending him away swamped in a morass of technical and intimidating information? Sales executives know you cannot sell a product until you can know it, breathe it and feel it. But in the area of personal home computers, too much knowledge can be a problem; it can actually drive the potential customer away.

KNOWS BUZZ WORDS

There is so much talk about computer systems these days, that some knowledge of computer "buzz" words is fairly common, especially with people toying with the idea of buying their own computers. We are told by some testing takes place between the customer and the sales associate. The customer wants to hear terms such as "10 OHMS" or the "16 bit microprocessor." It confirms that the sales person is informed. But the minute the talk gets really technical, the consumer retreats.

OFFERS TRAINING

To provide background to retail sales forces, Mattel offers an 18-hour training course for those to be involved with our Intellivision home video system.

The introduction of the home computer may seem right out of science fiction, but it's here, now. Education on the tremendous potential of this development is necessary-to the buyer, the sales force and the consumer. Our active efforts begin with the buyer. If we have not sold him, we have

not sold anyone.

We have prepared enough information to educate the buyer from the ground up, yet the buyers we talk to say they do a great deal of research on their own, There is such an abundance of information available through trade magazines and the Consumer Electronics Shows, that they claim it is just a matter of responding to the information that comes their way.

END PERFORMANCE COUNTS

Even buyers do not require extensive technical information They find the buzz words useful because they form a basis for comparisons. But the real comparisons that matter come down to what the unit will do for the consumer, how simple it is to operate, and how good a value it is for the money.

Basic glossary of terms used in computer technology

Below is a basic glossary of terms used in computer technology.

BASIC: one of the simplest computer languages. Popular with computer hobbyists and used on most small systems. (Other computer languages are used for different applications.) Basic combines math symbols with some English words.

BIT: similar to part of a letter, it registers plus or minus on a switch. The order in which these plusses and minuses are arranged determines what the message will be.

BYTE: space used to store one piece of information in a memory section. That piece of information can be a number, a letter, or any command, depending on the program. A byte is usually four or eight bits long.

CATHODE RAY TUBE (CRT): basically a television screen.

CENTRAL PROCESSING UNIT (CPU): all the circuitry that runs the rest of the computer.

CHIP: a small piece of semiconductor matter cut from a wafer that has one or more components (semiconductors) formed on its surface.

COMPLIMENTARY METAL OXIDE SEMICONDUCTOR (CMOS): a semiconductor component such as an integrated circuit (IC) or a large sale integrated circuit (LSI).

FLUORESCENT DISPLAY (FLD): a mini television tube that is printed with fluorescent images which glow when energized by electricity.

HARDWARE: computer equipment; i.e. CRTs CPUs.

K: 1024 bytes of memroy. In home computers usual capacity is 4K.

LARGE SCALE INTEGRATED CIRCUIT (LSI): several large circuit boards reduced to the size of a pinhead and bonded in a sandwich of insulation material such as ceramic or plastic.

LIGHT EMITTING DIODE (LED): a type of diode that emits light when current is allowed to pass through. A diode is a solid state component that is like a revolving door, in that the electric current can only pass through in one direction. A digital display consists of several LEDs. often bonded onto a gold-plated LED board. The light shines through various slots. A simple display has seven segments. When all are lit, the number eight is visible. Zero is six segments, one is two segments. Alphabetic displays require more segments than numeric.

LIQUID CRYSTAL DIODE (LCD): a successor to the LED, it is a photo sensitive crystal that is polarized.

MICROPROCESSOR: a small (micro) computer stored inside an LSI. Its size is usually rated by how many bytes of storage it can retain, i.e. 1K, 2K, 4K, part ROM, part RAM.

PRINTED CIRCUIT BOARD (PCB): a very important component in electronics. Most components are mounted in the PCB. It basically eliminates the need for wires and connectors. Parts are placed in holes on a board and connected - usually by wave soldering. The board is first coated with metal (usually copper) and the unwanted copper is then etched away leaving a circuit.

PROGRAM: a list of operations for the computer written in a computer language.

PROGRAMMING LANGUAGE: a written code that is used by the operator to get information into the computer and to tell it what to do. Its responses are in that same code, i.e. Basic.

RANDOM ACCESS MEMORY (RAM): that section of the computer or peripheral that stores information temporarily.

READ ONLY MEMORY (ROM): part of the central processing unit, it offers built-in information the machine needs to operate.

SEMICONDUCTOR: a material part-way between a resistor (ceramic) and a conductor (copper) including silicon, silenium, etc.

SOFTWARE: the programs a computer uses.

SOLID STATE: solid state electronic components made from similar materials - silicon, metals, etc. - that have no moving parts.

TRANSISTOR: this electronic component almost makes tubes obsolete. It is a semiconductor containing three or more electrodes that can be used for amplification and rectification.

WAFER: a round disc containing many integrated circuits which in turn are sliced and encased into a chip. ICs are made on those wafers, which measure approximately three inches round. They then are sliced into small pieces and sealed into the chips.

WAVE SOLDERING: a wave of solder is generated that bathes parts and joins them to the printed circuit board. It is used instead of a soldering iron.

Electronic revolution impacts on market

Integrated circuits insure low prices, innovative products

By JAMES P. TANN Marketing Manager, Toy and Game Components,

National Semiconductor Corp. Consumer electronics retailers, welcome to the future!

In order to help you understand and cope successfully with the present electronic revolution, I'd like to concentrate on its impact on the marketplace.

To understand the future, we must briefly understand the nature of the technology that is encouraging this revolution.

Let's begin at the lowest building block with the integrated circuit (IC). The electronics indusry has continued to place smaller and smaller circuit elements on the same size chip. These circuit elements are usually



James P. Tann

represented as transistors. While in 1965 we could build an IC with 100 transistors, today we can supply the same size IC with 100,000 transistors.

What this means to you is very simple: As the circuits become more complex, these circuits can perform more functions at similar prices. Or, stated another way, a complex function for a certain price will cost less in the future as the IC becomes smaller.

This fundamental feature of electronics can be described as the cost/performance ratio. As this ratio gets smaller (more performance for lower cost) more applications become available for electronics.

This declining cost/performance ratio is accelerating, thus proliferating the available number of electronic-based or enhanced products.

In no market is this more evident than in the consumer electronics market - therefore, the revolution. Since we see no near-term letup in this direction, we can only assume this revolution will continue to accelerate.

The consumer market is, and will remain on the leading edge of this technology for two fundamental reasons:

(1) The volumes are large.

which implies attractive markets.

(2) Product innovation is quickly rewarded.

The first point insures consumers of the lowest possible prices. The second insures a constant stream of innovations in order to establish large market shares and leadership positions. These two factors combine to make the consumer market a leading edge of this revolution.

Before we venture out on the prognosticator's proverbial limb,

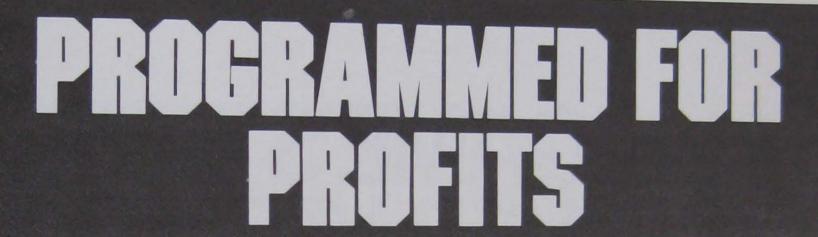
we must first define a generic consumer product or system. Envision this system as a group of blocks labelled Input, Processing, Instructions and Output.

By viewing a generic product in this manner, it is possible to forecast trends for each one of these subsections. When these trends are placed together, hopefully they can provide an idea of the types of products you can expect to see on the market during the next decade.

There is a difference between real innovation versus minor enhancements. It is important to understand this, because this subtle difference could make or break the retailers of the future.

In our generic system, the input stage can be anything from simply turning on the on/off switch, through hitting keys, to finally talking to the system. Today's present technology usually requires a key-stroke to initiate any

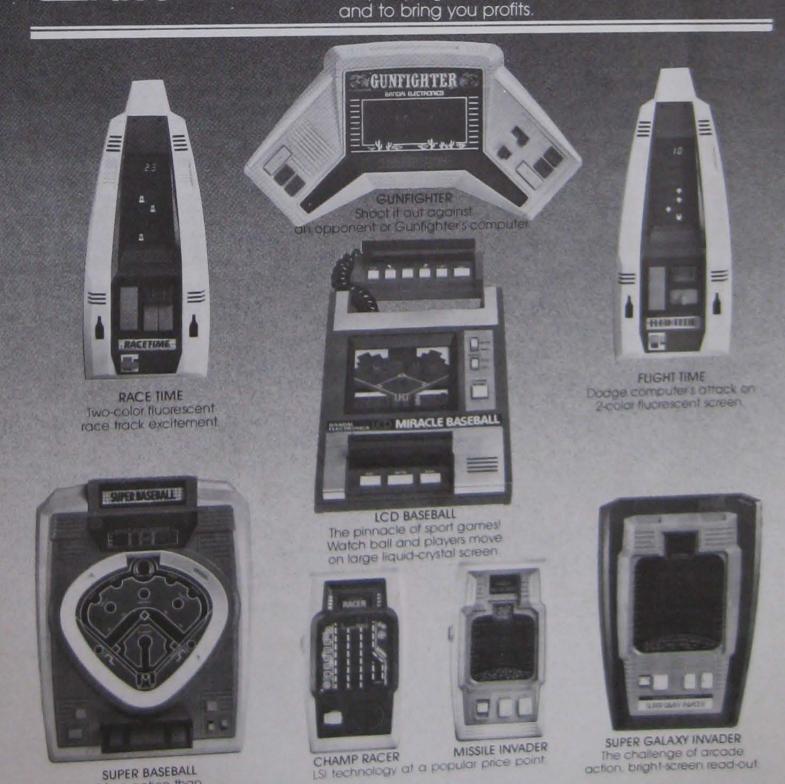
Continued on Page S34



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Microprocessors help producers meet consumer demands

Continued from Page S33 action, and can be enhanced by joy-sticks, or sliding controls. Over the past few years, the input section has been expanded to include radio frequencies (radio controlled) and other forms of

In the near future, the input section will further be expanded to include voice actuations. The first step will be to distinguish between two simple frequencies (i.e. yes/no), expanding to limited phrases (Channel 7) and finally

remote signal generations.

by the end of the decade, sentence recognition. Each successive step will require more complex electronics to recognize words and execute the proper commands.

The systems in the near future will exhibit probably a combination of all forms of input to effectively carry out their task. Just think about walking into your home, where appliances, entertainment, lights, security systems, etc. are all at your verbal command. Or, if you wish, you can talk to a device and it will listen and react to you!

Within the processing section resides the most widely discussed electronic device-the microprocessor. This device provides the "brains" for the product. Despite all the media attention the microprocessor is receiving, it may be surprising for you to know that this device is probably the lowest element in cost in our generic system.

MORE INTERACTION AHEAD

While low in cost, the micro-

processor will have great impact on future systems. What this device does is take the input, and per instructions generate an output. It is evident that the faster, more complex this device becomes, the more complex and interesting will be the functions it will handle.

In the future, these devices will react faster. This is of key importance, for faster processing allows more functions to be performed almost at the same time. As an example, rather than going "beep-beep," the sounds generaled may be extremely complex (i.e. chords, music, real-life action sounds).

Secondly, these devices will offer greater versatility to design engineers. This will allow product engineers to more easily design "brains" into more products. It will also allow manufacturers to react more readily to rapidly changing consumer demands.

It is conceivable to forecast a standard processor section designed to achieve a number of different product roles. By simple modification at the production line, this processor can be changed to go. into the "hot" consumer product of the moment.

Finally, a more complex processor will be able to talk to other processors (they can do this today!) in a very economical manner. This will spawn consumer products which become consumer "systems".

The initial thrust has already begun with such items as video games connected to TV sets. For the future, we can envision processors talking to other processors within the home for such purposes as security and energy usage, as well as entertainment, or to processors outside the residence -large computers, data banks,

GREAT FUTURE IMPACT

The key word or concept here is "interaction" The more and better processors can talk to each other, the more interaction between the consumer and machines, or between other consumers, becomes possible. No longer does the consumer have to passively view the world and events, but he can truly participate in "armchair quarterbacking." These complex interactive systems will be truly innovative and will undoubtedly command excellent consumer acceptance.

In describing the Processor Section, I never discussed how they work. Basically, a processor is a dumb device that needs to be told what to do. These instructions can take many forms. They may be programs stored within Continued on Page Stl

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'Up-scale' families are heaviest buyers of electronic games

By JOHN BYINGTON Vice-President, NPD Research,

Director, Toy Market Index During 1970, nearly 50 million units of electronic toys and games were sold. With an average ticket price of about \$23.50, this volume translates to over \$1 billion in retail dollar volume.

In terms of importance to the total toy and game industry, electronics represent only 3 percent of total category units, but nearly 16 percent of total category dollars. Clearly, electronics have evolved into a major industry factor.

Using data available from the Tov Market Index, a service of NPD Research, Inc. of Floral Park, New York we can gain a fairly good picture of the size and structure of the electronic toys and games market, as well as some understanding about the people who are buying them.

ELECTRONICS PACE GROWTH

Volume trends for the total toy and game industry indicate overall growth during 1979. Dollar sales were up 17 percent versus 1978 and unit sales were up 2 percent. However, if we subdivide the category into electronic and non-electronic segments, we observe that the growth traces entirely to the emergence of electronics.

We generally think of electronic toys and games as belonging to two different types. First are the TV video games. These have been around for a few years, but still appear to be on a growth curve. During 1979 they did trend above non-electronic toy and game items.

The current excitement, however, is over the non-video electronic items. Sales of this type more than tripled in 1979, to a retail sales level of \$782 million, 2.5 times greater than the sales of video games.

Electronic toys and games are expensive. The average price paid for a TV video game in 1979 was \$34.95. The average price of the non-video electronics is less at \$20.77, but this is still considerably above the average \$3.70 paid for non-electronic toy and game items.

'TRUE MARKET EXPANSION'

The fact that consumers are willing to pay the higher price may suggest that the electronic items are thought of as more advanced, more educational or more sophisticated. Additionally, the electronic items frequently offer a variety of games and multiple skill levels. This would also seem to justify a higher price. The growth attributed to elec-

1978 1979 1978 1979 \$3.71 \$4.27 **TOTAL TOYS & GAMES** NON-ELECTRONIC ITEMS (15% Increase) (7% Increase) 1978 1979 **ELECTRONIC ITEMS** (4% Decrease) 1978 1979 1978 1979 \$18,57 \$20,77 \$34,37 NON-VIDEO VIDEO (12% Increase) (2% Increase)

Comparative prices for non-electronic toys and games and electronic toys and games for the years 1978 and 1979 appear in this illustration.

tronics may be viewed as true market expansion. The fact that the non-electronic segment of the market has remained stable suggests this. Further, we find that the electronics are being purchased for older children and even for adults. These purchases do not represent replacement for other non-electronic items bought by the same consumers.

The appeal of electronics to older children and adults was even greater in 1979 than in 1978, which may suggest growing interest or awareness by these age groups over time. If this continues in 1980, market expansion may well continue.

GAIN WITH LARGE FAMILIES

The heavy buyers of electronics are families that are up-scale on education and income, and where the housewife is in the 35-54 age range and is employed part-time.

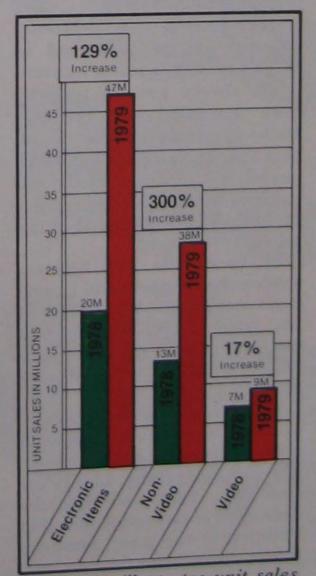
Naturally, the heavy buyers usually have children in the 6-12 and 13-17 year age groups. However, we notice a skew toward larger families; i.e. families with several children in these groups. Perhaps it is the larger families who can best benefit from an electronic item that can satisfy several family members in a play activity. The multiple skill levels of the electronics would further enhance this advantage.

The heavy buyers also tend to reside in the larger cities, having populations of 500,000 or more. In terms of regional development, the heavy buyers of video games are on the West Coast and the heavy buyers of the non-video items reside in the Eastern and Central Census Divisions. The city size and regional development may reflect the location of the key groups of buyers.

On the other hand, it could simply be a matter of product availability. Toy companies may not have achieved good distribution in all areas of the country.

When demographic profiles were developed on buyers of electronic items during 1978, similar skews were observed. Interestingly, however, the profiles of the 1978 buyers were more extreme in the skew to families upscale on education and income. Perhaps more upscale families are innovators and are more willing to experiment with "new" items available each year. This would be especially true of expensive new items, since these families have higher discretionary incomes.

In general, mothers do most of the toy and game purchasing for both electronic and non-electronic items. However, with electronics, fathers are often involved



This graph illustrates unit sales of electronic items for the years 1978 and 1979, as compiled by NPD Research.

in the purchase. Fathers are twice as likely to purchase an electronic toy or game then they are to purchase another type of toy, 14 percent and 7 percent respectively.

Upon closer inspection we find that it is the TV video games that fathers are buying. Fathers bought 22 percent of them. Perhaps it is because these are higherpriced items or because fathers want to actually play with the electronic items themselves.

MORE MALES GET INVOLVED

Males seem to be more involved in both purchasing and playing with electronic toys and games. Fifty eight percent of the electronic purchases are bought for boys only; another 10 percent were bought for boys and girls to share. Consequently, very few electronics are bought for girls only, 7 percent of TV video games and 27 percent of non-video electronic toys and games.

This is definitely related to the types of play activity that have been translated into electronics. The majority of existing electronic items are either sports-oriented or space-oriented. Both spheres of interest probably have more appeal to men and boys.

In almost all instances the electronic toy or game purchase is a planned purchase. Eighty four percent of the time, the decision to purchase a TV video game has been made prior to entering the store. Slightly less frequently, the non-video toy or game purchase is planned (75 percent). As a benchmark, a pre-shopping trip purchase decision is made only 42 percent of the time for the total toy and game category. The high level of planned purchasing for electronics is not surprising, given the high ticket price and the fact that many of the items are bought for the entire family.

PRICES COULD DECLINE

Observations at Toy Fair this year indicated that many toy companies have identified electronics as a strong potential source for new growth. Consumers will have countless new electronic items to select from this year.

Many of the new electronic items will be hard to differentiate from items already on the market. However, as the environment becomes more competitive, we might expect prices to drop. Electronics may then be affordable to a broader base of families and market expansion may therefore continue.

Additionally, some of the new electronic items do provide new play activities. These should certainly contribute to further mar-Continued on Page \$38

Semiconductor availability much improved over '79

Continued from Page S1 falling off (more chips are being used in fewer end products), but it isn't increasing at the rate they've grown accustomed to, either. While suppliers contend their major markets remain firm, reports are beginning to filter through that the recession may, for the first time, be affecting the electronics industry, which previously had been considered 'recession-proof.'

Growth projections made last year by the suppliers did take into account that a recession was overdue. However, the slowdown has been greater than expected and vendors may not even meet their conservative edictions for 1980.

Ironically, vendors are now counting on leisure time electronic manufacturers to keep their growth chart lines taut and pointing skyward.

CHIP SHORTAGE HURTS

According to Charles Hill, a semiconductor analyst who serves as a vice-president in the Research Department at Bache, Halsey, Stewart and Shields, toy manufacturers were hurt last Christmas by the unavailability of components.

Hill notes that "the rapid, initial buildup" on the part of toy and hobby manufacturers, coupled with the fact that vendors saw that 1979 "was a sellers market all the way," made component manufacturers hesitant to "commit themselves to toys until they were sure how it would all unfold."

In addition, he observes, vendors were concerned with profitability. Toys and games are a high-volume market, but provide a relatively low margin for the chip producers. Limited capacity and low prices added to vendors' hesitancy.

"It pretty much costs the same to produce a chip, be it a high end computer chip or a toy chip," Hill notes. In 1979, vendors did not wish to tie up their capacity by limiting themselves to stamping out toy chips, because it takes almost as long to make a toy chip as a computer chip and the profitability "just was not there," according to

SUPPLIERS NOW SCRAMBLE

But the recession is sending out reverberations, and the "recession-proof" electronics field is experiencing a slowdown. This is leading suppliers to scramble for new accounts. "You won't see the semiconductor industry's growth go flat," opines Hill. Instead, he foresees a new willingness to



The dawning of integrated circuits has pushed tubes and other electronic components into the background.

deal with manufacturers.

Last year vendors were "capacity limited" and chose to serve the high end of the market. "Demand for toy chips exceeded expectations," says Hill. "Toy manufacturers were coming off almost ground zero in that particular end of the business.

"They will get all the components they need this year," he states. "I think next year they are probably going to have more chips than they want, because they will be capacity limited."

SEES FUTURE SQUEEZE

Hill cautions that "the toy industry will get squeezed in tough times. Toy manufacturers won't always get top priority from semiconductor vendors. There is a time coming in the next five years where a seller's market will return, and the toy industry is again going to get caught with the short end of the

In the interim, Hill believes semiconductor prices will "come down next year, absolutely. If you are capacity limited, you won't move your prices. If its a buyer's market, prices will come down

"The integrated circuit's evolution is only half over," he feels. "We're seeing new technology, new processes every day. In the next five years we'll see the same kind of rate reductions that occurred in the past. Semiconductor manufacturers can only drive down the price so much. But they can now put so much on a chip, that the actual cost will go down and you will see some

pretty high-powered toys."

Major semiconductor vendors contacted by LEISURE TIME ELECTRONICS all acknowledged that they are upgrading existing plants or bringing on new front ends to meet present demand. They contend there is no softening in the market.

INCREASING CAPACITY

Bernie List, vice president of MOS Operations at Texas Instruments, Dallas, says, "We are increasing our capacity. Right now we are not meeting the demand of the electronic game industry."

But List reports TI is trying. He notes that in the four-year relationship between TI and electronic games, the company increased its capacity fourfold the first year, tripled it the second year and doubled that capacity last year.

Noting recent attempts by Japanese vendors to infiltrate the U.S. market, List adds, "Our intent is to build enough capacing to supply the U.S. market and not allow the Japanese to make inroads." The company is cur. rently expanding its Dallas operation and will have new wafer fabrication capability "early next year."

List acknowledges TI has "non been able to take on new customers." Instead, the company has increased its allow tions to "established customers with fair-shared increases With additional capacity slated to come on line in 1981, the fire plans to seek new clients.

The TI vice president believes the energy crunch is "a plus for the electronic game market. The home market for games is not showing any signs of softening Despite the segmented downturn in the economy, we see an upturn for home electronics.

GROWTH STILL CONTINUES

Ken Greenberg, microprocessor product manager at Gen. eral Instrument's Microelectronics Division, Hicksville, N.Y. contends the semiconductor market is "growing tremendously. We're still looking for 20, 30, or 40 percent growth this year. Business is a little slower than we originally forecast, but we all took the recession into account when we were making on predictions."

Greenberg detects "a fundamental difference in the way toy and hobby manufacturers build their products and the way the semiconductor business builds its products." He notes that the costs involved in establishing a wafer module run in the tens of millions of dollars, and that the cost of money mandates vendors to keep these modules running at all times once they come on line. "We can't run our bust ness in a cyclical nature like toys. If toy manufacturers could build year-round, demand they would have no problem getting parts."

All the vendors feel that to) Continued on Page S40

Electronic game consumers

Continued from Page S37 ket expansion. Whether electronics will maintain the sales momentum observed in 1979, however, is difficult to forecast.

The information used in this article comes from The Toy Market Index, a service of NPD Research, Inc., Floral, Park, New York.

NPD maintains an on-going panel of over 13,000 nationally representative families. Using a monthly pre-structured. diary, the panel members report purchases to NPD regarding certain selected categories. Respective to toys, the information reported includes: date of purchase; manufacturer name; toy item purchased; number purchased; price paid; name of store where purchase made; type of store where made; who made purchase; for whom was item pur chased; occasion for purchase; whether purchase was planned or impulse; extent of influence from recipient.

The data are then tabulated and na tional sales projections are made for each toy item made by each manufacturer within each toy category. Manu facturers and retailers can and have analyzed the data in a variety of ways to better plan their sales strategies. Cur rently, those companies who subscribe to the Toy Market Index represent over 47 percent of total industry sales.

component suppliers to leisure time electronics market

Following is a listing of electronic components suppliers for leisure time products manufacturers. Information is based on replies to an LTE survey.

BECKMAN INSTRUMENTS DIVISION

2500 Harbor Blvd. Fullerton, Cal. 92634 Currently supplying half a dozen toy and hobby manufacturers with LCDs and PGDs for electronic and pinball games. Sales

R.E. BREUER CO., INC.

2 Haven Ave.

are off the shelf.

Port Washington, N.Y. 11050 This electronics distributor offers speakers (lead time six to eight weeks), transformers for voltage regulation (eight to ten weeks), semiconductors (eight to 20 weeks), and custom moldings for housings and other parts (ten to twenty weeks).

CRYSTALOID ELECTRONICS

4976 Hudson Drive Stow. Ohio 44224

Manufactures liquid crystal displays for electronic games with a lead time of eight to twelve weeks ARO. Currently supplies three toy and hobby manufacturers.

GENERAL INSTRUMENT CORPORATION

Microelectronics 600 W. John St. Hicksville, N.Y. 11802

One of the largest electronic suppliers to the leisure time electronics industry, this manufacturer offers a series of microcomputers for various video and electronic games. Currently supplies approximately 50 firms and has a lead time on delivery of 12 weeks.

EXAR INTEGRATED SYSTEMS

750 Palomar Ave. Sunnyvale, Cal. 94086 Supplies five toy and hobby manufacturers with servo integrated circuits for use in radio controlled

cars and model airplanes. Lead time is 10 weeks.

LADCOR, INC. 230 E. Caribbean Dr. Sunnyvale, Cal. 94086 Offers dot matrix liquid crystal display for handheld games. Lead time on deliveries is 10 to 14 weeks.

LITRONIX, INC. 19000 Homestead Rd. Cupertino, Cal. 95014 Supplies LEDs for alphanumeric games with a lead time of 16 to 24 weeks. Also offers LCDs in eight to eighteen weeks' time. Manufactures custom products for specific applications as specified

in customer designs. Delivery ranges from 20 to 35 weeks depending on complexity.

MOLEX INCORPORATED 2222 Wellington Court Lisle, Ill. 60532

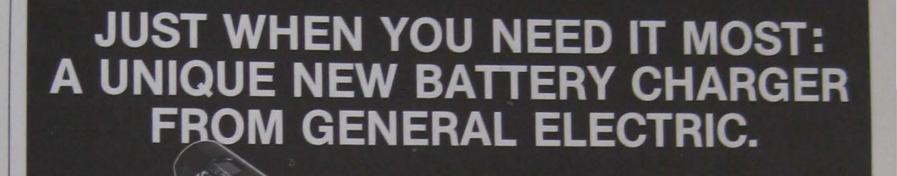
Produces connectors, cables, sockets and switches for use in home entertainment units, electronic games and personal computers. Supplies approximately 50 firms at this writing. Also offers special custom products. Lead time on the standard product line is six to twelve weeks.

MOTOROLA, INC. Semiconductor Group 5005 E. McDowell Rd. Phoenix, Ariz. 85008 Provides a number of semiconductor products for video games and home computers. Lead times are determined by consulting the firm's factory.

NATIONAL SEMI-CONDUCTOR CORP. 2900 Semiconductor Dr.

Santa Clara, Cal. 95051 While it currently supplies about 12 major leisure time electronics manufacturers, this house also offers two learning aids that are sold at retail (Quiz Kid @ \$9.95 and Quiz Kid Speller @ \$24.95). Among the components it produces are microcontrollers for toys and games (lead time 32 weeks), remote control chip sets for toys (16 weeks), custom electronics modules for toys and games (one year), LED lamps and displays

Continued on Page S41



Introducing GE's new "Double Charger" a low-cost recharging system that charges more batteries faster!

GE introduced the world to miniature recharging systems. Now, to keep pace with today's changing electronic-product requirements, we've taken rechargeable battery power one step further. The new GE "Double Charger" charges twice the number of batteries and does it faster than previous GE chargers. It has the capacity to handle up to eight AA-size or four C or D-size batteries or two 9-volt-size batteries during a single charge cycle. Batteries are ready to use in three to five hours, fully charged in eight to twelve hours.

It's great for the new electronic battery-powered products that require more batteries. "Double Charger" - increased battery charging convenience at low cost.

"Double Charger": Simultaneous Charging of Different Size Batteries.

The new "Double Charger" can recharge two different size batteries simultaneously. Any size GE battery module can be quickly combined with any other size at the same time. And consumers still get the benefits of

GE Rechargeables: batteries that can last for years, up to 1,000 recharges, consistent power and performance, and a recharging cost of only about 5 cents a month. It all adds up to

battery power that matches today's increasing electronicproduct requirements. And GE is helping to kick off our introduction with this special offer:

SPECIAL NTRODUCTORY OFFER!

Effective May 1 through August 31, 1980

Regular Suggested Retail Price* \$5.98

Special Introductory Suggested Retail Price* \$3.98

*Manufacturer's suggested retail price.

And consumers can save still more when they buy nationally advertised batteryoperated products containing a \$2 mail-in Rebate on GE's battery chargers.

Consult your GE sales representative or contact General Electric today: General Electric, Battery Business Department, P.O. Box 992, Gainesville, FL 32602 (904) 462-3911

We bring good things to life. GENERAL & ELECTRIC

Circle No. 16 on product card

Toy firms learn to comply with semiconductor lead times

semiconductors per car, even Continued from Page S38

and hobby manufacturers are still on a learning curve. They contend these manufacturers were unfamiliar with the necessary lead times involved, and as a result planned poorly in the past. Says Greenberg, "We're not the same as the rest of the vendors they're used to dealing with. All those manufacturers that place orders early are going to get all the parts they need."

The common analogy given by the vendors is that "It takes a longer time to develop a chip than it does to print a game board."

Stephen Fields, public relations director at National Semiconductor, Santa Clara, Calif., asserts that "Demand for semiconductor products is still on the rise, but it is slowing down a bit in some sectors. The slowdown is not across the board. For example, the auto industry is slowing down but we're still shipping more semiconductors to them because there are more

though Detroit is making fewer

Fields had served as market ing manager for toys and games at National before assuming his present post. "The kinds of components toys use are often custom products," he notes. "We have to build them for a specific function. The chips we build for Mattel are not going to be used in a GM car. You can't play basketball with your GM

SEES NO CHIP SHORTAGE

The National Semiconductor spokesman states that with custom chips, "there is no question of allocation, no question on delivery." With oneyear lead times for these circuits, there is plenty of time to plan for their production, he asserts. Fields also says National Semiconductor can deliver standard chips in 16 to 18 weeks.

"There is no shortage of chips," he declares, "Anyone who said there was a chip shortage last year was unfamiliar with this industry,"

Fields reports that various toy and hobby manufacturers came back for new components in August and September in the past, hoping to get their finished games on the market for Christmas. This could not be done, and as a result. Fields believes leisure time electronic manufacturers then went away howl ing about a chip shortage.

"We told them, 'You can't get chips because you didn't order them in time," he states. "If they had ordered all the chips they needed in February, they would have had them in December."

Stan Katz, manager consumer marketing/Semiconductor Group at Motorola, Mesa, Ariz., believes toy and game comapnies "would get more semiconductors from this industry in a downturning economy, which we are very likely approaching." He notes that during a recession other areas currently using chip technology are likely to suffer. For example, industrial applications would falter during a downturn, he says. As a result, "those new people looking to put parts into their products would get components."

'RECESSION-PROOF' BUSINESS

Motorola has a program for toys and games "because we see a lot of this as a relatively recession-proof business, especially in the area of handheld games." Katz hints that Motorola will increase its focus in leisure time electronics in the near future, but notes that "a lot of what we do is still televisionbased. Television has undergone a rebirth with the introduction of video discs, home computers, and programmable video games."

One firm beginning to influence television sales is Mattel Electronics with its Intellivision system. Jeff Rochlis, president of the Mattel division. sees "significantly more quantities of electronic devices" available for the whole industry this year, compared with last year. Major firms like Mattel, Parker, Bradley and Coleco have all been able to expand their capacities to produce more quantities, he says, and Rochlis expects to see "significant" volume increases.

BRAND FIRMS MAY GAIN

But Tony Clowes, president at Entex, takes a different view, "I never expected additional growth this year," he says. 'There aren't as many components available. There were to million chips available world wide allocated for our industry and that isn't very much, Rock well got out, and TI decided not to expand its allocation."

He notes that small firms which manufacture only 10 or 50 thousand units do not face inaurmountable problems in he

Clowes believes "brandestah. lishment" will tend to filter some of these small companies out of the market, which may cause more chips to become available. "The brand manufacturer will then come to feel that once he has more chips, he can innovate more."

Says Rochlis, "Much of the technological changes we are seeing now - new displays, voice synthesizers, high level microprocessors - are all being driven as much by our industry as any other right now. That's just the tip of the iceberg compared with what's coming down the pike, I think our industry will be one of the prime driving forces for a lot of new technology."

According to National Semiconductor's Fields, "The toy industry is very receptive to leading edge technology, whether it's plastics or electronics. If there's new technology on the block, the toy companies are trying to use it.

CHANGED PERSPECTIVE

"In the past, when we came out with a new product, we thought it was too expensive so we wouldn't go to the toy manufacturers with it. We've changed our minds on that," says Fields. "There are some sophisticated toy manufacturers out there capable of producing some really neat stuff."

Conic makes plans to broaden U.S. base

NEW YORK-Conic International, a major supplier of electronic games and radios, says it is preparing to broaden its U.S. distribution base with an "aggressive" marketing program.

Included in the program is a joint venture with Justin Prod ucts. Inc., a large independent distributor of radios and electronic games. Justin is the exclusive U.S. distributor for all Conic products, shipped F.O.B. Hong Kong.

The new structure will allow the firm to "concentrate on io growing consumer electronics division, which serves man merchandisers," says Ed Steele Conic's marketing director for worldwide sales.



Future of integrated circuits

Continued from Page S34 the processor (handheld games), stored on other IC's (video games), stored on magnetic tape or disc (personal computers) or they can come from an external source (Cable TV). In general, these instructions are in a computer language and are rather complex.

During the next decade, instruction sets or "software" will become easier for the consumer to use. As a matter of fact, manufacturers who develop ways of placing economical software into the consumer's hands will have a significant advantage over their competitors.

Component suppliers

Continued from Page S39 both standard and custom (stock to 32 weeks) and audio amplifiers for toy phonographs (eight weeks).

ROCKWELL INTERNATIONAL Electronic Devices Division 3310 Miraloma Ave. Anaheim, Cal. 92803

Offers microprocessors and onechip microcomputers for electronic games and pinball machines. Lead times vary from off the shelf to 120 days. The company also produces custom electronic sub-assemblies for electronic games. Lead times for these items vary with the application.

SPRAGUE ELECTRIC CO.

North Adams, Mass. 01247 Supplies standard and custom integrated circuits, transistors and capacitors. Lead times will vary from as low as six weeks for capacitors to as high as 48 weeks for

custom circuits.

TECKNIT Connector Division 129 Dermody St. Crawford, N.J. 07016

Provides approximately 20 leisure time electronics manufacturers with connectors for electronic displays and printed circuit boards, and switch contacts for keyboards and control circuits. Lead time is four to eight weeks.

TEXAS INSTRUMENTS P.O. Box 22510

conductor products.

Dallas, Texas 75265 The originator of the silicon chip, Texas Instruments offers the TM5 1000 family of single chip microcomputers. Lead time is the to eight months. TI also offers complex sound generators lead time 12 to 14 weeks) and a variety of other common semi-

We can envision for the future that instructions to our generic system will enter the system in three ways:

- 1. At the manufacturing level.
- 2. By the consumer.
- 3. From an outside source.

The third method would give our system access to a wide array of data on the outside world, consequently making it even more useful to the consumer.

NEW DISPLAY CAPABILITIES

The fourth and final major building block of our system is the Output portion. Today, it consists of simple sounds, lights, and TV screens. This will not always be the case.

As IC's become more complex, new display capabilities will become possible in size, multicolors and shape recognition at the "handheld" level. In addition, the possible range of sounds will be expanded to include multilevels of music (chords), speech, and "real" natural noises. Even the TV screen may change in physical size (flat screen TV), and also its ability to display more realistic graphics.

MARKETING OF 'SYSTEMS'

In essence, our generic system will be able to duplicate any musical instrument, display a realistic still or moving picture, and contain much more information.

What do all these advances in the generic system mean for the retailer of the future? They mean that future consumer electronics products will be both innovative in their features, and will also serve many interrelated functions. We may be marketing "systems" rather than individual products, which will require different selling techniques. The systems you will be selling during the next decade will usher in an Information Revolution. Consequently, it

is clear that the lifestyle, as we know it today, will be altered greatly.

Other factors may even accelerate this revolution. As energy costs increase, it is more economical to move information than people or goods. Consequently, the advent of home offices, home shopping and home banking will occur. Future-thinking merchants will not only be contemplating how to "sell" to this new environment, but how to sell the equipment which makes information movement possible.

It is apparent that electronics will permeate the consumer market, and will change not only the products bought, but consumers' lifestyle and fundamentally the way they interact with other people, objects and institutions. The retailer who understands these forces and stays in-step with the trend, will have as great an advantage as the first users of media advertising.



Retail training program helps Mattel launch Intellivision

HAWTHORNE, Cal. - A training program for in-store demonstrators, and heavy promotional roll-outs in February and March in New York, Chicago and Los Angeles, were used by Mattel Electronics to launch its Intellivision home video system.

The approach is part of a conscious effort to build a "longterm brand business," states Richard Hoag, Mattel Electronics vice-president/sales.

Retailers are seeking a major marketer who can help them merchandise and sell leisure time electronics, Hoag maintains. "We are experts in consumer research, and we believe Intellivision can be a foundation block for creating a long-range business in what we call 'lifestyle electronics.'

Intellivision is a modular approach to the personal home computer market. On the market now is a master component-a 16-bit microprocessor that connects to any home color TV set and utilizes 20 different game cartridges.

Available this summer will be a keyboard component; sold separately, which uses programmed cassettes. It features a 60-key, typewriter-like keyboard, which allows the user to feed information into the system and receive personalized results. Eight cassettes currently available concentrate on various self-improvement areas.

In 1981, Mattel is expected to build a personal programming capability into the Intellivision system.

To introduce the product line, the company first conducted a test market program last December in the Fresno, Calif., area, and then undertook similar programs in New York, Chicago and Los Angeles.

MEET TOP MANAGEMENT

Initially, company executives made presentations to top management officials at various mass merchandise chains in the different markets, says Hoag, "We feel we are presenting a new concept-a new product classification and, indeed, a new way of life. We know that handling it requires a major commitment of space, funding and staffing, and that these are decisions that cannot be made by a buyer."

Department store chains are "especially excited" about the oncoming personal computer market, reports Hoag, "because it adds extra dollars for them. We are getting them to understand that this really is a new business."

After selling the concept to managements in the Fresno market area, Mattel officials held



Press guests try their skills with Intellivision at The Broadway, Los Angeles, during debut of Mattel's home video system.

meetings with store personnel. Here, the nature of Intellivision was demonstrated and described, and salespersons from throughout the stores were encouraged to talk about the product to their customers. Incentive contests were held, with prizes given to salespeople who encouraged the most customers to visit the Intellivision display.

'Great enthusiasm was created," says Hoag, "because department stores thrive on fashion, and we are fashion. We tried to stimulate a fever throughout the store."

EMPLOYEES BUY PRODUCT

One side-result of this effort, he reports, was the large number of store employees who bought the product.

To help introduce Intellivision. Mattel developed a program to train in-store demonstrators in how to describe the system, and how to answer consumer questions. The three-day program lasts 18 hours, and has been conducted both at Mattel headquarters and within the local markets.

Hoag says that Mattel is in the process of creating an ongoing education and training department. "Our trained demonstrators will then train store demonstrators around the country.

The sophistication of the system, and the fact that it is a highticket, "considered sale" makes such a program necessary, states Hoag. "You must pay more attention to consumer questions; you must allow consumers to put their hands on the product through demonstrations, and must give them an opportunity to closely scrutinize your sales brochures."

Macy's in New York, Marshall Field in Chicago, and The Broadway in Los Angeles were the kickoff units for Intellivision in their respective markets. These stores enjoyed a one-week exclusivity in introducing the system to their

area, and were the first to be tagged on Mattel spot TV advertisements. Other chains in the individual markets joined the program in the second week of the campaign and began promoting and selling the product line.

STORE WINDOW DEMOS

Macy's and Field's featured live demonstrators in their store windows, while The Broadway kept live demonstrators on hand during peak business hours for two weeks, in its electronics de-

Participating chains in the market areas also took advantage of a Mattel incentive program that allows retailers to accrue monies toward the cost of print ads, says Hoag.

At Macy's, Intellivision is being carried in the electronics department. Bloomingdale's, New York, is showing the system in a special consumer electronics department that also includes such items as calculators, home security devices and stereo systems. The product is

being stocked at Gimbels, New York, in an area bordering both the TV and electronic games

A cross-merchandising approach is being carried out at The Broadway. There, a main. floor department carries hand. held games, video games, Intellivision and Atari's home video system. The Intellivision video game component and keyboard component will also be stocked upstairs in the TV department.

DRAWS MEDIA ATTENTION

Pete Wilson, Marshall Field's buyer for cameras, calculators and adult games, says the window demonstrations on State Street drew a great deal of media attention, as well as in-store traffic. Demonstrators were used over a two-week period, as part of a storewide "American Idea" promotion that showcased American-made products. "We felt Intellvision idealy dramatized American inventiveness in electronics," says Wilson.

He believes the effectiveness of the demonstrators depended on the individual involved. "Their personality was important, and how they were able to convey to consumers the fun of the item.

Don Kapicka, The Broadway's electronics buyer, plans to use Mattel-trained, in-store demonstrators again in the fall, and thinks they will be even more effective then.

"The program was very valuable in training my personnel," he says. "But I don't think the consumer was well enough aware in the spring of what Intellivision is. In the fall, though, when Mattel is carrying out a nationwide promotional campaign, I believe the demonstrators will really pay off."

GE offers low-cost ni-cad battery charger

GAINESVILLE, Fla. - General Electric Battery Business Department has introduced a new lowcost battery charger for use with its line of nickel-cadmium rechargeable batteries.

The new "Double Charger" can charge twice as many GE batteries as previous GE chargers, charges them faster than previous chargers, and charges more than one size at a time, says the firm. GE's suggested retail price for the item is \$5.98, but the company is introducing the product with a special introductory suggested retail of \$3.98.

GE pioneered the development of low-cost miniature battery chargers in 1976 with the introduction of the BC3 miniature charger. It retails for \$3.98,



charges four AA size, two C or D cells, or one nine volt GE battery in 14 to 16 hours.

The new Double Charger. Model BC2, can charge twice as many of each battery size, in various combinations; up to eight AA size batteries. The cells are ready to use in only three to five hours, and are fully charged in eight to twelve hours.

Double Charger-Circle No. 150 on product card

One good profit-maker deserves another.



SCRABBLE BRAND SENSOR TO

Electronic Word Game! It's made a lot of money for a lot of dealers. The game itself is a winner. And so is the high-impact advertising we've put behind it. Exciting commercials on network and spot TV. Full-color ads in magazines like People, The New Yorker and Games. Geared to generate the fast-moving sales you always expect from Scrabble® Brand game products.



INTRODUCING SCRABBLE BRAND LEXOR

Computer Word Game. A totally new kind of electronic fun.

NEW alpha-numeric display. NEW electronic timing. NEW automatic scoring to make it all fun and no work. One to four players can take their pick of three different ways to play.

Heavily promoted! Spot and network TV. Full-color ads in national magazines, such as People, Life and The New Yorker. The sales action will be hot and heavy. Don't miss out!



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